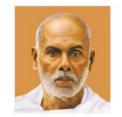


# Sree Narayana Guru College of Engineering & Technology



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

### **5.1 Student Support**

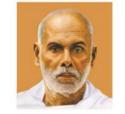
# **5.1.3** Percentage of Students Benefitted by Guidance for Competitive Examinations and Career Counseling Offered by The Institution During the Last Five Years

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# Sree Narayana Guru College of Engineering & Technology



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

# AY 2022 – 2023 (PLACEMENT ACTIVITIES, STUDENTS PLACED ON AND OFF CAMPUS, HIGHER STUDIES)



### Sree Narayana Guru College of Engineering & Technology CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



'ear	Name of student placed	Program graduated from	Name of the employer with contact details	Pay package at appointment (In INR per annum) (applicable for students who got placement)	
	ASHAYA RAMESH	BTECH IN CIVIL ENGINEERING	Arbee Structures Pvt.Ltd.	228000	
	ASWITHA GANGADHARAN	BTECH IN CIVIL ENGINEERING	MaverixPro Ltd	200000	
	ATHIRA ARUN K	BTECH IN CIVIL ENGINEERING	MaverixPro Ltd	200000	
	AYSHATH SAIFA	BTECH IN CIVIL ENGINEERING	MaverixPro Ltd	200000	
	SILMA M	BTECH IN CIVIL ENGINEERING	MaverixPro Ltd	200000	
	SREEHARI K K	BTECH IN CIVIL ENGINEERING	Amerigon Structural Engineers Private Limited	200000	
	HRISHIKA PRADEEP	B TECH IN COMPUTER SCIENCE AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum	
2022-23	THANYA MOHAN	B TECH IN COMPUTER SCIENCE AND ENGINERRING	QUALITEST MaverixPro Ltd	2.4 L/Annum	
	THEJA RAJESH	B TECH IN COMPUTER SCIENCE AND ENGINERRING	MaverixPro Ltd Revenue Growth Associate	2.4 L/Annum 6 L/Annum	
	PALLAVI SWAROOP KUMAR	B TECH IN COMPUTER SCIENCE AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum	
	AVANTIKA K	B TECH IN COMPUTER SCIENCE AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum	
	SIDARTH K	B TECH IN COMPUTER SCIENCE AND ENGINERRING	MaverixPro Ltd	PRINCIPAL PRINCIPAL SREE LAAMANGURU COLLE ENGINEERING & TECHNOLE	

	FATHIMATHU SAHALA	B TECH IN COMPUTER SCIENCE		
2022-23	BEEVI	AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum
2022-23		B TECH IN COMPUTER SCIENCE		
	SAFA FATHIMA	AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum
		B TECH IN COMPUTER SCIENCE		
	U V VAISHNAV	AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum
		B TECH IN COMPUTER SCIENCE		
	SRAVAN R	AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum
		B TECH IN COMPUTER SCIENCE		
	VISHNU R	AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum
		B TECH IN COMPUTER SCIENCE		21.02.10
	JEEVA NARAYANAN	AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum
		B TECH IN COMPUTER SCIENCE		
	SREENANDANA T V	AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum
	CREENWOLL IV B	B TECH IN COMPUTER SCIENCE		2 4 7 /4
	SREENISHA K P	AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum
	C) (IIIIIII)	B TECH IN COMPUTER SCIENCE		2.47/4
	SMIJITH M	AND ENGINERRING	MaverixPro Ltd	2.4 L/Annum
	DAMBITHA DA IEFWAN	B TECH IN COMPUTER SCIENCE	B	61/4
	RAMRITHA RAJEEVAN	AND ENGINERRING	Revenue Growth Associate	6 L/Annum
	HRIDYASREE VALSAN	B TECH IN COMPUTER SCIENCE	PCth Ai	61/4
	HRIDYASKEE VALSAN	AND ENGINERRING	Revenue Growth Associate	6 L/Annum
		D TECH IN ELECTRONICS AND		
	ARJUN ASHOK K	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	MaverixPro Ltd	2.4 L/Annum
	ARJUN ASHUK K	COMMONICATION ENGINEERING	MavenxPro Ltd	Z.4 L/Annum
	SANISHMA	B TECH IN ELECTRONICS AND		
	SACHITHANAND	COMMUNICATION ENGINEERING	GOAN INSTITIUTE	3 L/Annum
	SACIITIANAND	COMMONICATION ENGINEERING	GOAN INSTITIOTE	3 L/Aiiiuii



# Sree Narayana Guru College of Engineering & Technology

KOROM, PAYYANUR, KANNUR-670 307



Est. 2003

5.2.1 Percentage of outgoing students and students progressing to higher education during the last five years

Year	Name of students enrolling into higher education and contact details	Program graduated from	Name of institution joined	Name of program admitted to (applicable for students who progressed to higher education)
	SUNDER V	B.Tech Computer Science Engineering	Kalasalingam Academy of Research and Education	PHD in Computer Science Engineering
	THULASI BAI A	B.Tech Computer Science Engineering	Kalasalingam Academy of Research and Education	PHD in Computer Science Engineering
2022 22	VARSHA M	B.Tech Computer Science Engineering	Kalasalingam Academy of Research and Education	PHD in Computer Science Engineering
2022-23	MANEESHA K V	B.Tech in Civil Engineering	Government College of Engineering, Kannur	M.Tech in Civil Engineering
	NAGHA SREEVALSAN U	B.Tech in Civil Engineering	Government College of Engineering, Kannur	M.Tech in Civil Engineering
	ANULAKSHMI P V	B.Tech in Civil Engineering	Government College of Engineering, Kannur	M.Tech in Civil Engineering
	ANAGHA P	B.Tech in Civil Engineering	Government College of Engineering, Kannur	M.Tech in Civil Engineering(Geoinformat cs)



### SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY, PANYANUR.



Korom, Chalakode P.O., Payyanur, Kannur – 670307

Managed by Sree Bhakthi Samvardhini Yogam, Talap, Kannur

Affiliated to APJ Abdul Kalam Technological University and Approved by AICTE

# TRAINING & PLACEMENT DEPARTMENT OF SNGCET

Welcomes



**MAVERIX**PRO

The Campus Recruitment Drive
On 29th March 2023





### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

#### TRAINING & PLACEMENT CELL

#### REPORT ON PLACEMENT DRIVE BY MAVERIXPRO Ltd

Date: 29/03/2023

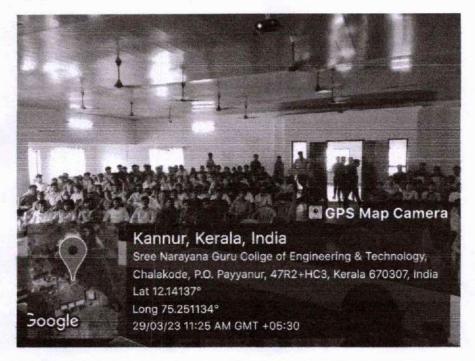
Venue: Seminar Hall

MaverixPro Ltd, a leading technology company, conducted a pool drive at SNGCET (Sree Narayana Guru College of Engineering & Technology) on 29th March 2023. The purpose of the drive was to recruit talented and enthusiastic engineering graduates for various roles within the company.

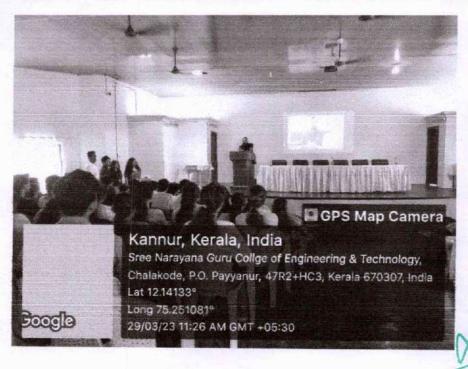
The recruitment event commenced at 9:00 AM in the college auditorium. A team of HR representatives and technical experts from MaverixPro Ltd were present to oversee the proceedings. The event was well-organized and structured, with different rounds designed to assess the candidates' skills and capabilities.

The candidates displayed a high level of enthusiasm and curiosity about the company and its offerings. Their technical knowledge and problem-solving skills were commendable, showcasing their strong academic background. Communication skills varied among candidates, with some showing exceptional articulation during the group discussion and interviews. The Q&A session indicated that candidates were interested not only in the job roles but also in understanding the company's long-term vision.

Twenty One students from various department of SNGCET got placed in the company. The pool drive concluded on a positive note, with the promise of potential collaborations between MaverixPro Ltd and the budding engineers of SNGCET. Both parties expressed gratitude for the opportunity to connect and collaborate in shaping the future of technology.







### List of students participated:

1	AKASH P V	CE	CREATIVE	akashpv10052001@gmail.com	8592921004
2	AADITHYA	CE	CREATIVE	aadithcnambiar@gmail.com	9567793503
	KRISHNAN C				
3	KRISHNA PRASAD SL	CE	CREATIVE	kichuzzksd@gmail.com	9061624306
4	SREEHARI K	CE	CREATIVE	sreeharikk8@gmail.com	8943405341
7	K	CL	CREATIVE	Siccilaria Kolaginan.com	6943403341
5	ABHIRAMY	CE	CREATIVE	abhiramyraj80@gmail.com	9895429496
_	RAJ	CL	Cittariive	aomany ajoo (sgman.com	3033423430
6	Athira Arun k	CE	CREATIVE	athiraarun.05@gmail.com	8137954241
7	ASHAYA	CE	CREATIVE	ashayaramesh8@gmail.com	7736718806
	RAMESH			,	
8	Ayshath Saifa	CE	CREATIVE	saifaabdulla42@gmail.com	8113091041
9	Sachin	CE	CREATIVE	Sachinsurendran.mouvery@gmail	8590662672
	surendran, M			.com	
10	Aadithya	CE	CREATIVE	aadithcnambiar@gmail.com	9567793503
	krishnan c				
11	Manila Mahesh	CS	CREATIVE	manilamahesh989@gmail.com	9895202069
12	Anagha k	CS	CREATIVE	anaghak972@gmail.com	9747685071
13	smijith	CS	CREATIVE	smijithvineethm@gmail.com	07736912327
14	Varun	CS	CREATIVE	vc6238@gmail.com	6238909714
15	Aathish P	CS	CREATIVE	aathishp007@gmail.com	9961047036
	Jagadeesh				
16	Jithin	ECE	CREATIVE	Jithinnv2oo@gmail.com	8137868791
	sasidharan nv				
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	CV				
18	Jithin	ECE	CREATIVE	Jithinnv2oo@gmail.com	8137868791
	sasidharan nv				
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	sachithanand				
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	TP				
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	Ramadan			m_	
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23	Nithin A	ME	CREATIVE	Nithinworkofficial@gmail.com	9778769156
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	DINESH	3			
25	Athul B	ME	CREATIVE	athuljr11@gmail.com	9497569602
26	Adarsh pk	ME	CREATIVE	adarshpk482@gmail.com	9074760795
27	Farhan C	ME	CREATIVE	farhanc1212@gmail.com	7994316955
28	Sreehari S	ME	CREATIVE	nambiarsreeharis@gmail.com	8590078348
20	Nambiar	3.00	CDE LOSS	111,1000 7 11	
29	Mridul c	ME	CREATIVE	mridulc1998@gmail.com	7012950415
30	Mohammed	ME	CREATIVE	muhdaafil@gmail.com	9947274758
	Aafil Ismayil M				
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34	Anjana c	CE		nikhilsaii2001@gmail.com	7025548812 8590282353 PA
35	Anjana c Ananjana	CE	FINANCE	canjanadamu@gmail.com	ODYVES ADS PA
11	SHAMSHAD	CE	FINANCE FINANCE	ananjana246@gmail.com SRI shamshadsadik@gmail.com	8129961302 <sub>KAN</sub>

	PV		T		
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42	Muhammed Zahid AP	CS	FINANCE	zahid234579@gmail.com	9947609015
43	Abhijith Ram Raj P K	CS	FINANCE	abhijithramrajpk789@gmail.com	8547560021
44	Sreehari V	CS	FINANCE	srehari786123@gmail.com	7306843144
45	Vishal-k	EEE	FINANCE	kvishal234561@gmail.com	9447749330
46	VIDYASAGAR P	ME	FINANCE	pvidyasagar2000@gmail.com	8590199576
47	Arsh Ibrahim	ME	FINANCE	arshibrahim2213@gmail.com	9895591558
48	Anurag A	ME	FINANCE	anurag730620@gmail.com	7994776234
49	Anurag A	ME	FINANCE	anurag730630@gmail.com	7994776234
50	Aswitha Gangadharan	CE	IT	aswithaashs@gmail.con	7306999987
51	Anandhu ashok k p	CE	IT	anandhuashok261@gmail.com	7994303463
52	ANJALI M P	CE	IT	anjalimp15102000@gmail.com	7736498684
53	Muhammed Rufaid M	CE	IT	mohdrufaid00@gmail.com	8606460622
54	Kavya Devi M K	CS	IT	kaviadevy2001@gmail.com	8330827761
55	V K AYSHA	CS	IT	ayshavk783@gmail.com	9495143470
56	Thanya Mohan	CS	IT	thanyasparrow469@gmail.com	7736364360
57	Nipun S Anand	CS	IT	nipunjnhan@gmail.com	8547375275
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59	Megha pk	CS	IT	abmeghameghu162@gmail.com	+9186068016 76
60	SRAVAN R	CS	IT	sravanr107@gmail.com	6238614224
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62	UV VAISHNAV	CS	IT	vyshnavpramod10@gmail.com	7034467121
63	Theja Rajesh	CS	IT	thejarajesh58@gmail.com	9747928305
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65	Thanmaya Sanjeev	CS	IT	thanmayasanjeev0814@gmail.co	7034160488
66	MUHAMMAD JISHAN PTK	CS	IT	jishanpcoz@gmail.com	8139076037
67	Hryshika Pradeep	CS	IT	Hryshikapradeep@gmail.com	8157924135
68	Safa Fathima	CS	IT	safafathimahere@gmail.com	9446771228
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70	Jeeva Narayanan	CS	IT	jeeva.narayanan2012@gmail.com	9895825715
71	smijith m	CS	IT	smijithvineethm@gmail.com	07736912327LA A V
72	Ramritha Rajeevan	CS	IT	ramritharajeev@gmail.com	7560922636CIFAL
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76	Ajmal	CS	IT	ajmalaju96054@gmail.com	7025402317
77	althaf ashraf	CS	IT	ashrafalthaf433@gmail.com	9567434914
78	Avantika K	CS	IT	avanthkamanoj@gmail.com	9446605449
79	Vishnu R	CS	IT	vishnurayaroth405@gmail.com	8138859699
80	Ahmed Adil	CS	IT	adil52134@gmail.com	8136913950
81	ABHINAV SAJEEVAN	CS	IT	abhinavsajeevan456@gmail.com	7012804141-
82	Vishnu Prabhakaran	CS	IT	vishnucvcr9@gmail.com	7559879987
83	SAFA SAYEED V	CS	IT	safasayeed1226@gmail.com	9995588027
84	Sreenisha K P	CS	IT	sreenishakp7@gmail.com	8547102466
85	Fathimathu Sahala Beevi	CS	IT	sahalabeevi120@gmail.com	8606166116
86	Jijo Jaison	CS	IT	jijojaison03@gmail.com	8943003895
87	Sreenandana TV	CS	IT	nandanadhanaraj24@gmail.com	9544238742
89	Muhammed Rishal Ikbal	CS	IT	rishalrishu956@gmail.com	9567573242
90	Sidharth K	CS	IT	sidharthkeramam@gmail.com	9562236332
91	Mariyambi	ECE	IT	mariyambimuhammed121@gmail .com	9747910245
92	Arjun Ashok k	ECE	IT	arjunkolichal28@gmail.com	6238947548
93	Anusha jyothi	EEE	IT	anushajyothi83@gmail.com	9188191478
94	Vaishnav TV	EEE	IT	Vaishnavtv48@gmail.com	7025123728



# Sree Narayana Guru College of Engineering & Technology

KOROM, PAYYANUR, KANNUR-670 307



PLACEMENT APTITUDE TRAINING -FOR FINAL YEAR B.TECH STUDENTS



FROM 7th AND 8th MAR 2023



SEMINAR HALL



**9AM TO 4PM** 

CONDUCTED BY TRAINING AND PLACEMENT
CELL OF SNGCET IN COORDINATION WITH
TEAM PROGRESSUM

DE LES COV

PRINCIPAL
SREE NARAYANA GURU CCLLEGE OF 11
ENGINEERING & TECHNOLOGY



### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY Promoted by Sree Bhakthi Samvardhini Yogam

(Affiliated to KTU, Recognised by AICTE)

### Report On Placement Aptitude Training Workshop for Final Year Students

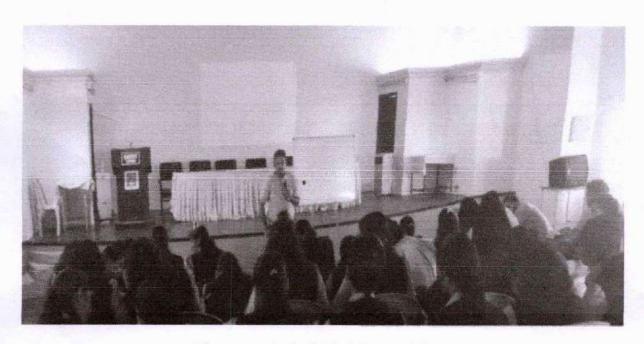
The "Placement Aptitude Training Workshop" was conducted by the Training and Placement Cell of SNGCET on 7th and 8th March 2023. The workshop emphasized the ability to perform well on their interview and react to situations at work. Aptitude training was conducted to enhance the ability of quick learning methods, along with improving the analytical skills required for the spontaneity in a particular situation.

The resource persons from the team *Progressum* had conducted the workshop on, reasoning ability, quantitative aptitude, and resume building, to help students understand the concept of aptitude. The training allowed the students to think beyond boundaries and limitations, keeping in view the aspect of time management which would be very beneficial for them in their professional & personal growth. The students were encouraged to attend and contribute in aptitude classes for acquiring essential quick learning and analytical skills and consequently effectiveness and success on their job, in the future.

The training aimed at developing following skills in the students:

- Reasoning and Quantitative
  - Statements assumption, conclusions, Assertion Test, Series & Coding Decoding, Sitting Arrangements.
- Resume Building.

The Training and Placement Cell was able to organize the workshop successfully. The students got an opportunity to gain much knowledge in those covered topics, and the workshop had highlighted the importance of aptitude successfully among the students.



Placement Aptitude Training workshop

## NAME LIST OF STUDENTS WHO ATTENDED THE WORKSHOP FROM:

### **CSE DEPARTMENT**

NAME OF THE STUDENTS	SIGNATURE
PALLAVI SWAROOP	Callerman
NIPUN	Xame -
THEJA RAJESH	The second of th
SREENISHA	Seema
ARCHANA	Stan
THANYA MOHAN	The state of the s
SAFA	Silver
MEGHA	Media 1
AVANTIKA	Sand Con
MANILA	Menda :
KAVYA	layla.
THANMAYA	Tomard C.

### CE DEPARTMENT

NAME OF THE STUDENTS	SIGNATURE
ABHIRAMY	ABhirans
ASWITHA	radition
NIKHIL SAI	Xikh Su.
SREEHARI	Somase

### **ECE DEPARTMENT**

NAME OF THE STUDENTS	SIGNATURE
JITHIN	Tittain.
KEERTHANA	- leathanar .
MARIYAMBI	Migrathi .
SANISHMA	andra =

### ME DEPARTMENT

NAME OF THE STUDENTS	SIGNATURE
ATHUL B	Aha
SANDESH	adds -

### EEE DEPARTMENT

NAME OF THE STUDENTS	SIGNATURE
DEVI KEERTHANA	Partitions
ANUSHA JYOTHI	Authoritis.

### CCV → SAMPLE QUESTIONS

- 1. The mass per unit volume of a liquid at a standard temperature and pressure is called
- 2. The volume per unit mass of a liquid is called specific volume
- 3. The weight per unit volume of a liquid at a standard temperature and pressure is valled
  - 4. The specific weight of water in S.I. units is taken as
- 5. The ratio of specific weight of a liquid to the specific weight of pure water at a standard temperature is called
- 6. The specific gravity has no units
- 7. The specific gravity of water is taken as
- 8. The specific weight of sea water is
- 9. The density of a liquid in kg/m3 is numerically equal to its specific gravity.
- 10. The specific weight is also known as weight density.
- 11. The mass of 2.5 m3 of a certain liquid is 2 tonnes. Its mass density is
- 12. The specific gravity of an oil whose specific weight is 7.85 kN / m3, is 1/2.
- 13. The property of a liquid which offers resistance to the movement of one layer of liquid over another adjacent layer of liquid, is called
  - 14. Kinematic viscosity is the product of dynamic viscosity and the density of the liquid.
  - 15. The force per unit length is the unit of ×
- 16. The variation in the volume of a liquid with the variation of pressure is called its 🐞 🥎
- 17. The property of a liquid which enables into resist tensile stress is called its surface tension
- 18. When a tube of smaller diameter is dipped in water, the water rises in the tube due to viscosity of water.
- 19. When a tube of smaller diameter is dipped in water, the water rises in the tube with an upward

- 20. A glass tube of smaller diameter is used while performing an experiment for the capillary rise of water because 6
- 21. The mercury does not wet the glass. This is due to the property of the liquid known as
  - 22. With an increase in size of tube, the rise or depression of liquid in the tube due to surface tension will
  - 23. In the manufacturing of lead shots, the property of surface tension is utilised.
- 24. The unit of surface tension is 😘
- 25. The viscosity of a liquid is due to cohesion of its particles.
- 26. Falling drops of water become spheres due to the property of %
  - 27. The intensity of pressure at any point, in a liquid, is
- 28. The pressure at appoint 4m below the free surface of water is
  - 29. The height of a water column equivalent to a pressure of 0.15MPa is
  - 30. According to Pascal's law, the intensity of pressure at any point in a fluid at rest is the same in all directions
- 31. The pressure measured with the help of a pressure gauge is called
- 32. The atmospheric pressure at sea level is
  - 33. The density of air is same at different heights.
  - 34. When the pressure intensity at a point is more than the local atmospheric pressure, then the difference of these two pressures is called
- 35. When the pressure intensity at a point is less than the local atmospheric pressure, then the difference of these two pressures is called vacuum pressure.
- 36. The vacuum pressure is always the negative gauge pressure.
- 37. The absolute pressure is equal to
- 38. The pressure less than atmospheric pressure is known as
- The pressure of a liquid measured with the help of a piezometer tube is

- 40. The vacuum pressure can be measured with the help of a piezometer tube.
- 41. The pressure measured with the help of a piezometer tube is in
- 42. A piezometer tube is used only for measuring no
- 43. The liquid used in manometers should have \( \)
- 44. This resistance per unit area to deformation, is called
- 45. The unit of stress in S.I. units is
- 46. The deformation per unit length is called
- 47. When a body is subjected to two equal and opposite pulls, as a result of which the body tends to extend its length, the stress and strain induced is
- 48. When a body is subjected to two equal and opposite forces, acting tangentially across the resisting section, as a result of which the body tends to shear off across the section, the stress and strain induced is
- 49. Hook's law holds good up to
- 50. The ratio of linear stress to the linear strain is called
- 51. The unit of modulus of elasticity is same as those of
- 52. When a change in length takes place, the strain is known as
- 53. The modulus of elasticity for mild steel is approximately equal to
- 54. Young's modulus may be defined as the ratio of
- 55. Modulus of rigidity may be defined as the ratio of
- 56. Two bars of different materials and same size are subjected to the same tensile force.

  If the bars have unit elongation in the ratio of 2:5, then the ratio of modulus of elasticity of the two materials will be
- 57. Strain rosetters are used to
- 58. A bar of length L metres extends by 1 mm under a tensile force of P. The strain produced in the bar is

- 59. The maximum stress produced in a bar of tapering section is at
- 60. Modular ratio of the two materials is the ratio of

Name: PRANAV A K



(A) 25000 MPa

# SREE NARAYANA GURU COLLEGE OF ENGINEERING \*\* TECHNOLOGY

Internal Test	( ) ( )	Academic Year/Semester	2022-23 / S6
Subject name with code	CET 404	Branch	
Date of Exam		Duration	
Starting time		Max. Marks	
(i) Strength ir	creases with decre	ncrease in slenderness ratio Time: 60 min.	
(iv) Strength (A) (i) and (ii)		(B) (i), (ii), (iii) are correct	
(C) (i) and (iii)  2. Which of the		(D) All the above ents regarding properties of concrete are corre	ct?
(p) Modulus o	f elasticity of M25	5 grade of concrete is 25000 MPa.	
(q) Approxim	ate value of shrink	kage strain of concrete is 0.0003	
(r) pH value of	of water used in co	oncrete construction should not be less than 6.	Type of the
(A) p and q ar	re correct	(B) p and r are correct	(C) q and r are
correct		(D) all the above are correct	
3.The long term is	m modulus of elas	ticity of M25 grade concrete with q value at 7	7 days to be 2.2

(B) 7812.5 MPa

(C)	3500	MPa
$( \sim )$	2200	TATE OF

(D) None

- 4. Consider the following statements regarding the air entrained concrete? (1) Increased resistance to freezing and thawing
- (2) Improvement in workability.
- (3) Increase in strength.
- (4) Permits reduction in water content of these,
- (A) 1, 2, 4 are correct

(B) 2, 3, 4 are correct

(C) 1, 3, 4 are correct

- (D) All the above are correct
- 5. Which of the following statements regarding admixtures are correct? (A) Retards the setting of cement (B) Accelerates the setting of cement (C) Improves the workability of concrete (D) All the above
- 6. Consider the following statements:
- The compressive strength of concrete decreases with increase in water cement ratio of the concrete mix.
- II. Water is added to the concrete mix for hydration of cement and workability.
- III. Creep and shrinkage of concrete are independent of the water cement ratio in the concrete mix.

The true statements are

(A) I and III

(B) I, II, III

(C) II and III

(D) I and II

- 7. Consider the following statements:
- I. Modulus of elasticity of concrete increases with increase in compressive strength of concrete
- II. Brittleness of concrete increases with decrease in compressive strength of concrete.
- III. Shear strength of concrete increases with increase in compressive strength of concrete.

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THE	uuc	Sia	LCIII	CIIIS	alc

- (A) I and III
- (B) I, II, III
- (C) II and III
- (D) I and II
- 8. Consider the following statements:
- (p) Nominal mix proportions for M20 grade concrete is 1:1.5:3
- (q) Weight batching is preferred compared to nominal (volume) batching
- (r) Maximum cement content as per IS456-2000 is 450 kg/m3
- (A) p, q are correct
- (B) p, r are correct
- (C) q, r are correct
- (D) p, q and r are correct
- 9. Which of the following statements given below are correct.
- (p) Nominal cover to reinforcement is based on serviceability or durability requirements
- (q) Factors affecting the durability of concrete are w/c and maximum cement content
- (r) Minimum cement content is not based on exposure conditions.
- (A) p, q, r are correct
- (B) p and q are correct
- (C) p and r are correct
- (D) only p is correct
- 10. Consider the following statements regarding the addition of pozzolanas to cement causes
- (p) Increase in strength (q) Less heat of hydration (r) Decrease in workability

The true statements are

- (A) p, q, r are correct
- (C) p and r are correct
- (B) p and q are correct
- (D) q only is correct
- 11. The composition of air entrained concrete is given below:

Water: 180 kg/m3.

Ordinary Portland cement: 360 kg/m3

imary i ordana coment. 300 kg/ms

Sand: 601 kg/m3 Coarse aggregate: 1160 kg/m3

Assume the specific gravity of OPC, sand and coarse aggregate to be 3.10, 2.65 and 2.74
respectively, the air content in liters/m3 is
(A) 53 liters/m3
(B) 50 liters/m3
(C) 45 liters/m3
(D) None
12.Consider the following statements
(p) Nominal maximum size of coarse aggregate to be used in R.C.C is 20 mm
(q) As per IS456-2000; fine sand to be used in R.C.C should confirm to zone II and medium
sand.
(r) Minimum grade of concrete to be used in R.C.C is M30 The true statements are
(A) p and q are true (B) p and r are true
(D) q and r are true
13. Which of the following statements given below are correct?
(p) In mild environment, surface crack width should not exceed 0.3 mm as per IS456-2000.
(q) Crack width increases with increase in stress in reinforcement bar.
(r) Concrete and steel exhibit high strength after being subjected to high temperature.
(A) p and r are correct (B) p, q and r are correct
(C) p and q are correct (D) None
14. The ratio of the volume of air voids to the volume of voids, is called
A. void ratio  B. air content
C. degree of saturation Porosity
15. The specific gravity of sandy soils is

<u>A.</u>	1.2		<u>B.</u>	1.8
<u>C.</u>	2.2		<u>⊅.</u>	2.7
6.Ac	cording	to Indian standards, the disp	ersing solution	n used

16. According to Indian standards, the dispersing solution used in pipette method, for the determination of size of particle consists of

7 g sodium carbonate, 43 g sodium

A. hexameta-phosphate and 1 litre
distilled water

7 g sodium carbonate, 33 g sodium

B. hexameta-phosphate and 1 litre
distilled water

7 g sodium carbonate, 23 g sodium

C. hexameta-phosphate and 1 litre
distilled water

D. any one of the above
distilled water

17. The water content in a soil at which just shear strength develops is called

A. liquid limit
B. plastic limit
C. elastic limit
D. shrinkage limit

18. Which of the following gives the correct decreasing order of the densities of a soil sample?

A. Saturated, submerged, wet, dry

B. Saturated, wet, submerged, dry

C. Saturated, wet, dry, submerged

D. Wet, saturated, submerged, dry

19. The ratio of the unconfined compressive strength of undisturbed soil to the unconfined compressive strength of soil in a remoulded state, is called

<u>A.</u>	sensitivity	<u>B.</u>	thixotropy
<u>¢.</u>	relative density	<u>D.</u>	bulk density
. 20.A b	ody floating in a liquid is said to be in	neutral eq	uilibrium, if its metacentre
<b>A.</b>	coincides with its centre of gravity	<u>B.</u>	lies above its centre of gravity
<u>C.</u>	lies below its centre of gravity	<u>D.</u>	lies between the centre of buoyancy and centre of gravity
21.A f	low through an expanding tube at const	ant rate is	called
<u>A.</u>	steady uniform flow	<u>B.</u>	steady non-uniform flow
<u>C.</u>	unsteady uniform flow	<u>D.</u>	unsteady non-uniform flow
22.The	total energy of a liquid particle in moti	ion is equa	al to
<u>A.</u>	pressure energy + kinetic energy + potential energy	<u>∕B.</u>	pressure energy - (kinetic energy + potential energy)
<u>C.</u>	potential energy - (pressure energy + kinetic energy)	<u>D.</u>	kinetic energy - (pressure energy + potential energy)
23. Th	e discharge over a rectangular notch is		
<u>A.</u>	inversely proportional to H3/2	<u>B.</u>	directly proportional to H3/2
, <u>C.</u>	inversely proportional to H5/2	<u>D.</u>	directly proportional to H5/2

<u>A.</u>	sill or crest	<u>B.</u>	nappe or vein
<u>C.</u>	orifice	<u>D.</u>	none of these
25.The	e total energy line lies over the hydraulic	gradien	t line by an amount equal to the
<u>A.</u>	pressure head	<u>B.</u>	velocity head
<u>C.</u>	pressure head + velocity head	<u>D.</u>	pressure head - velocity head
26.Sel	ect the wrong statement		
<u>A.</u>	An equivalent pipe is treated as an ordinary pipe for all calculations	<u>B.</u>	The length of an equivalent pipe is equal to that of a compound pipe
<u>C.</u>	The discharge through an equivalent pipe is equal to that of a compound pipe	<u>D.</u>	The diameter of an equivalent pipe is equal to that of a compound pipe
surface			s rotated about its vertical axis, the liquid
<u>A.</u>	steady flow	<u>B.</u>	turbulent flow
<u>C.</u>	vortex flow	<u>D.</u>	uniform flow

28.fluid whose viscosity does not change with the rate of deformation or shear strain is known

24. The sheet of water flowing over a notch or a weir is known as

<u>A.</u>	real fluid	<u>B.</u>	ideal fluid
<u>C.</u>	newtonian fluid	<u>D.</u>	non-newtonian fluid
the bo	dy undergoes some deformation, it sets up	p some	body, it undergoes some deformation. As resistance to the deformation. This
A.	Sura A	<u>B.</u>	stress
C.	pressure	<u>D</u> .	modulus of elasticity
30 A b	beam extending beyond the supports is ca	lled	
<u>A.</u>	simply supported beam	<u>B.</u>	fixed beam
<u>C.</u>	overhanging beam	<u>D.</u>	cantilever beam
31.A c	concentrated load is one which		
<u>A.</u>	acts at a point on a beam	<u>B.</u>	spreads non-uniformly over the whole length of a beam
<u>C.</u>	spreads uniformly over the whole length of a beam	<u>D.</u>	varies uniformly over the whole length of a beam
32.The	e section nodulus (Z) of a beam is given h	v	

<u>A.</u>	I/y	<u>B.</u>	I.y
<u>C.</u>	y/I	<u>D.</u>	M/I
33. bea	um of T-section is subjected to a shear for	rce of F	The maximum shear force will occur a
the			
<u>A.</u>	top of the section	<u>B.</u>	bottom of the section
C	neutral axis of the section	<u>D.</u>	junction of web and flange
34.A re	ectangular beam of length I supported at	its two	ends carries a central point load W. The
maxim	um deflection occurs		4 4
<u>A.</u>	at the ends	<u>B.</u>	at 1/3 from both ends
<u>e.</u>	at the centre	<u>D.</u>	none of these
35.The	load required to produce a unit deflection	on in a s	pring is called
<u>A.</u>	flexural rigidity	<u>B.</u>	torsional rigidity
<u>C.</u>	spring stiffness	<u>D.</u>	Young's modulus
36. Th	e Rankine's theory for active earth pressu	ıre is ba	sed on the assumption that
<u>A.</u>	the retained material is homogeneous and cohesionless	<u>B.</u>	the frictional resistance between the

### material is neglected

the failure of the retained material <u>C.</u> takes place along a plane called D. all of the above rupture plane 37. If percentage reduction in area of a certain specimen made of material 'A' under tensile test is 60% and the percentage reduction in area of a specimen with same dimensions made of material 'B' is 40%, then the material A is more ductile than the material B is more ductile than B. A. material B material A the material A is brittle and material B the ductility of material A and B is D. equal is ductile 38. Factor of safety is defined as the ratio of ultimate stress to working stress working stress to ultimate stress <u>A.</u> <u>B.</u> <u>C.</u> breaking stress to ultimate stress D. ultimate stress to breaking stress 39. The failure of foundation of a building is due to withdrawl of subsoil moisture <u>B.</u> unequal settlement of soil lateral escape of the supporting

<u>C.</u>

material

all of these

<u>A.</u>	increasing the depth of footing	<u>B.</u>	draining the sub-soil water
<u>C.</u>	ramming the granular material like crushed stone in the soil	<u>D.</u>	all of the above
41. br	rick masonry, for good bonding		
<u>A.</u>	all bricks need not be uniform in size	<u>B.</u>	bats must be used in alternate courses only
<u>_C</u> _	vertical joints in alternate courses should fall in plumb	<u>D.</u>	cement mortar used must have surkhi as additive
42. Th	e size of a step commonly adopted for re	esidentia	buildings is
<u>A.</u>	250 mm x 160 mm	<u>B.</u>	270 mm x 150 mm
<u>C.</u>	300 mm x 130 mm	<u>D.</u>	350 mm x 100 mm
43.A v	weir, generally, used as a spillway of a de	am is	
A	narrow crested weir	<u>B.</u>	broad crested weir
<u>C.</u>	Ogee weir	<u>D.</u>	submerged weir
44.Th	e hydraulic mean depth for a circular pip	e of dian	neter (d) is

40. The bearing capacity of soils can be improved by

A. d/6

B. d/4

<u>C.</u> d/2

- <u>D.</u> d
- · 45.The coefficient of venturiflume, generally lies between
  - A. 0.3 to 0.45

**B.** 0.50 to 0.75

C. 0.75 to 0.95

**D.** 0.95 to 1.0

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Name: .As	otha	brangae	hara()

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Kon No:-			



(A) 25000 MPa

# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Internal Test		Academic Year/Semester	2022-23 / S@
Subject name with code	COMPREHENSIVE VIVA	Branch	CE
Date of Exam	03 05 2023	Duration	
Starting time		Max. Marks	

1. Which of the following statements regarding the cube strength of concrete are correct?
(i) Strength increases with decrease in cube size
(ii) Strength decreases with increase in slenderness ratio Time: 60 min. (iii) Strength
increases with increase in slenderness ratio
(iv) Strength decreases with decreases in cube size
(A) (i) and (ii) are correct (B) (i), (ii), (iii) are correct
(C) (i) and (iii) are correct (D) All the above
2. Which of the following statements regarding properties of concrete are correct?
(p) Modulus of elasticity of M25 grade of concrete is 25000 MPa.
(q) Approximate value of shrinkage strain of concrete is 0.0003
(r) pH value of water used in concrete construction should not be less than 6.
(A) p and q are correct (B) p and r are correct (C) q and r are
correct (D) all the above are correct
3. The long term modulus of elasticity of M25 grade concrete with q value at 7 days to be 2.2
is a second of the second of t

(B) 7812.5 MPa

(C) 3500 MPa

(D) None

- 4.Consider the following statements regarding the air entrained concrete? (1) Increased resistance to freezing and thawing
- (2) Improvement in workability.
- (3) Increase in strength.
- (4) Permits reduction in water content of these,

(A) 1, 2, 4 are correct

(B) 2, 3, 4 are correct

(C) 1, 3, 4 are correct

(D) All the above are correct

5. Which of the following statements regarding admixtures are correct? (A) Retards the setting of cement (B) Accelerates the setting of cement (C) Improves the workability of concrete (D) All the above

6. Consider the following statements:

- The compressive strength of concrete decreases with increase in water cement ratio of the concrete mix.
- II. Water is added to the concrete mix for hydration of cement and workability.
- III. Creep and shrinkage of concrete are independent of the water cement ratio in the concrete mix.

The true statements are

(A) I and III

(B) I, II, III

(C) II and III

(D) I and II

7. Consider the following statements:

- I. Modulus of elasticity of concrete increases with increase in compressive strength of concrete
- II. Brittleness of concrete increases with decrease in compressive strength of concrete.
- III. Shear strength of concrete increases with increase in compressive strength of concrete.

The true statements are
(A) I and III (B) J, II, III
(C) II and III (D) I and II
8. Consider the following statements:
(p) Nominal mix proportions for M20 grade concrete is 1:1.5:3
(q) Weight batching is preferred compared to nominal (volume) batching
(r) Maximum cement content as per IS456-2000 is 450 kg/m3
(A) p, q are correct (B) p, r are correct
(C) q, r are correct (D)p, q and r are correct
9. Which of the following statements given below are correct.
(p) Nominal cover to reinforcement is based on serviceability or durability requirements
(q) Factors affecting the durability of concrete are w/c and maximum cement content
(r) Minimum cement content is not based on exposure conditions.
(A) p, q, r are correct (B) p and q are correct
(C) p and r are correct (D) only p is correct
10. Consider the following statements regarding the addition of pozzolanas to cement causes
(p) Increase in strength (q) Less heat of hydration (r) Decrease in workability
The true statements are
(A) p, q, r are correct (C) p and r are correct
(B) p and q are correct (D) q only is correct
11. The composition of air entrained concrete is given below:
Water: 180 kg/m3

Ordinary Portland cement: 360 kg/m3

Sand: 601 kg/m3 Coarse aggregate: 1160 kg/m3

34

Assume the specific gravity of OPC, sand and coarse aggregate to be 3.10, 2.65 and 2.74
respectively, the air content in liters/m3 is
(A) 53 liters/m3
(B) 50 liters/m3
(C) 45 liters/m3
(D) None
12.Consider the following statements
(p) Nominal maximum size of coarse aggregate to be used in R.C.C is 20 mm
(q) As per IS456-2000; fine sand to be used in R.C.C should confirm to zone II and medium
sand.
(r) Minimum grade of concrete to be used in R.C.C is M30 The true statements are
(A) p and q are true (B) p and r are true
(C) p, q and r are true (D) q and r are true
13. Which of the following statements given below are correct?
(p) In mild environment, surface crack width should not exceed 0.3 mm as per IS456-2000.
(q) Crack width increases with increase in stress in reinforcement bar.
(r) Concrete and steel exhibit high strength after being subjected to high temperature.
(A) p and r are correct (B) p, q and r are correct
(C) p and q are correct (D) None
14. The ratio of the volume of air voids to the volume of voids, is called
A. void ratio B. air content
C. degree of saturation D. Porosity
15. The specific gravity of sandy soils is

<u>A.</u>	1.2	<u>B.</u>	1.8
<u>C.</u>	2.2	<u>D.</u>	2.7
16.Ac	cording to Indian standards,	the dispersing solu	tion used in pipette method, for the
detern	nination of size of particle c	onsists of	
	7 g sodium carbonate, 43	g sodium	7 g sodium carbonate, 33 g sodium
<u>A.</u>	hexameta-phosphate and	1 litre <u><b>B.</b></u>	hexameta-phosphate and 1 litre
	distilled water		distilled water
	7 g sodium carbonate, 23	g sodium	
<u>C.</u>	hexameta-phosphate and	1 litre <u><b>D.</b></u>	any one of the above
	distilled water		
17.Th	e water content in a soil at v	vhich just shear stre	ngth develops is called
<u>A.</u>	liquid limit	<u>B.</u>	plastic limit
<u>C.</u>	elastic limit .	<u>D.</u>	shrinkage limit
18.WI	nich of the following gives t	he correct decreasing	ng order of the densities of a soil sample
<u>A.</u>	Saturated, submerged, we	t, dry <u>B</u>	Saturated, wet, submerged, dry
<u>C.</u>	Saturated, wet, dry, submo	erged <u>D.</u>	Wet, saturated, submerged, dry

19. The ratio of the unconfined compressive strength of undisturbed soil to the unconfined compressive strength of soil in a remoulded state, is called

<u>A.</u>	sensitivity	<u>B.</u>	thixotropy
<u>C.</u>	relative density	<u>D.</u>	bulk density
20.A l	body floating in a liquid is said to be in no	eutral ec	quilibrium, if its metacentre
<u>A.</u>	coincides with its centre of gravity	<u>B.</u>	lies above its centre of gravity
<u>C.</u>	lies below its centre of gravity	<u>D.</u>	lies between the centre of buoyancy and centre of gravity
21.A 1	flow through an expanding tube at consta	nt rate i	s called
<u>A.</u>	steady uniform flow	<u>B.</u>	steady non-uniform flow
<u>C.</u>	unsteady uniform flow	<u>D.</u>	unsteady non-uniform flow
22.Th	e total energy of a liquid particle in motion	on is equ	ual to
<u>A.</u>	pressure energy + kinetic energy + potential energy	<u>B.</u> _	pressure energy - (kinetic energy + potential energy)
<u>C.</u>	potential energy - (pressure energy + kinetic energy)	<u>D.</u>	kinetic energy - (pressure energy + potential energy)
23. T1	he discharge over a rectangular notch is		
<u>A.</u>	inversely proportional to H3/2	<u>B.</u>	directly proportional to H3/2
<u>C.</u>	inversely proportional to H5/2	<u>D.</u>	directly proportional to H5/2

<u>A.</u>	sill or crest	<u>B.</u>	nappe or vein		
<u>C.</u>	orifice built restroction and	<u>D.</u>	none of these		
25.Th	e total energy line lies over the hydraul	ic gradien	t line by an amoun	t equal to the	
. zi					
<u>A.</u>	pressure head	<b>B.</b>	velocity head		skizor
<u>C.</u>	pressure head + velocity head	<u>D.</u>	pressure head - v	elocity head	
26.Sel	ect the wrong statement				
	An equivalent pipe is treated as an	lan e <b>s</b> err	The length of an	equivalent pip	e is
<u>A.</u>	ordinary pipe for all calculations	<u>B.</u>	equal to that of a	compound pij	pe
			med heart		
<u>C.</u>	The discharge through an equivalent pipe is equal to that of a compound pipe	<u>D.</u>	The diameter of a	grilginin(15vo.	.2
27.Wh	nen a cylindrical vessel, containing som	ne liquid, i	s rotated about its	vertical axis, t	he liquid
surfac	e is depressed down at the axis of its ro	tation and	I rises up near the	valls of the ve	ssel on all
sides.	This type of flow is known as				
<u>A.</u>	steady flow	<u>B.</u>	turbulent flow		
	varies uniformly over the wheel				
<u>C.</u>	vortex flow remarks to referred	<u>D.</u>	uniform flow		
28.flu	id whose viscosity does not change wi	th the rate	of deformation or	shear strain is	known

24. The sheet of water flowing over a notch or a weir is known as

A. real f	B. nappe or vein biul	<u>B.</u> \	ideal fluid		
C. Diewto	onian fluid sent the schiult naince	<u>D.</u>	non-newtonian	fluid oillife	
29. Whenever	some external system of force	es acts on a	body, it undergoe	es some deforma	ation. As
the body unde	ergoes some deformation, it se	ets up some	resistance to the	deformation. Th	nis
resistance per	r unit area to deformation, is c	alled			
A. strain	E pressure head a clucity	<u>B.</u>	stress		
C. press	ure	<u>D.</u>	modulus of elas	sticity	
30.A beam ex	xtending beyond the supports	is called			A
A. simpl	ly supported beam	<u>B.</u>	fixed beam		
	ing diameter of an Amir				
C. overh	ranging beam	<u>D.</u>	cantilever bean	pipe is equal <b>r</b>	
and of the land					
31.A concent	rated load is one which				
	and mees up near the walls of				
			spreads non-un	iformly over the	whole
A. acts a	at a point on a beam	<u>B.</u>	length of a bear	m १०११ १० अवस्य स्रात	
	ds uniformly over the whole	n	varies uniform	y over the whol	е
C. lengt	h of a beam of motion	<u>D.</u>	length of a bear	m v di cafior	

32. The section nodulus (Z) of a beam is given by

<u>A.</u>	I/y	<u>B.</u>	I.y
<u>C.</u>	y/I	<u>D.</u>	MI .
33. be	am of T-section is subjected to a shear for	rce of F	The maximum shear force will occur
the			
<u>A.</u>	top of the section	<u>B.</u>	bottom of the section
	)		
<u>C.</u>	neutral axis of the section	<u>D.</u>	junction of web and flange
34.A r	rectangular beam of length l supported at	its two	ends carries a central point load W. The
maxin	num deflection occurs		
<u>A.</u>	at the ends	<u>B.</u>	at 1/3 from both ends
<u>C.</u>	at the centre	<u>D.</u>	none of these
35.Th	e load required to produce a unit deflection	on in a s	spring is called
<u>A.</u>	flexural rigidity	<u>B.</u>	torsional rigidity
<u>C.</u>	spring stiffness	<u>D.</u>	Young's modulus
			TO BE MANAGED BY
36 Th	ne Rankine's theory for active earth pressu	re ic he	used on the assumption that
55. 11	to remaine a moory for active earth pressu	15 08	on the assumption that
<u>A.</u>	the retained material is homogeneous	<u>B.</u>	the frictional resistance between the
	and cohesionless		retaining wall and the retained

#### material is neglected

the failure of the retained material

C. takes place along a plane called

 $\underline{\mathbf{D}}$ . all of the above

rupture plane

37. If percentage reduction in area of a certain specimen made of material 'A' under tensile test is 60% and the percentage reduction in area of a specimen with same dimensions made of material 'B' is 40%, then

the material A is more ductile than

A. material B

the material B is more ductile than material A

the ductility of material A and B is

C. equal

- the material A is brittle and material B

  D.

  is ductile
- 38. Factor of safety is defined as the ratio of

A. ultimate stress to working stress

**B.** working stress to ultimate stress

C. breaking stress to ultimate stress

- <u>D.</u> ultimate stress to breaking stress
- 39. The failure of foundation of a building is due to

A. withdrawl of subsoil moisture

**B.** unequal settlement of soil

lateral escape of the supporting C.

material

D. all of these

<u>A.</u>	increasing the depth of footing	<u>B.</u>	draining the sub-soil water
<u>C.</u>	ramming the granular material like crushed stone in the soil	<u>D.</u>	all of the above
41. br	ick masonry, for good bonding		
<u>A.</u>	all bricks need not be uniform in size	<u>B.</u>	bats must be used in alternate courses only
	vertical joints in alternate courses		cement mortar used must have surkhi
<u>C.</u>	-	<u>D.</u>	
	should fall in plumb		as additive
42. Th	e size of a step commonly adopted for resid	dentia	l buildings is
<u>A.</u>	250 mm x 160 mm	<u>B.</u>	270 mm x 150 mm
<u>C.</u>	300 mm x 130 mm	<u>D.</u>	350 mm x 100 mm
43.A w	veir, generally, used as a spillway of a dam	is	
<u>A.</u>	narrow crested weir	<u>B.</u>	broad crested weir
<u>C.</u>	Ogee weir	<u>D.</u>	submerged weir
44 The	hydraulia maan denth far a circular nine	of dian	natar (d) is

40. The bearing capacity of soils can be improved by

- d/4
- d/2 have been the adult grunnish
- $\Lambda_{\mathbf{z}}$  , thereas  $\|\cdot\|_{\mathbf{z}}$  the depth of footing D.
- 45. The coefficient of venturiflume, generally lies between
  - 0.3 to 0.45

0.50 to 0.75

0.75 to 0.95 C.

**D.** 0.95 to 1.0



## SREE NARAYANA GURU COLLEGE OF ENGINEERING \*\*ECHNOLOGY\*\*

Internal Test		Academic Year/Semester	2022-23 / 86 %
Subject name with code		Branch	(A) L 2, 4 ard
Date of Exam	03 05 2023	Duration	22-
Starting time	ELECTRICAL PROPERTY.	Max. Marks	50

Starting time		Max. Mai	rks	50
4) Retails the	tourne et ketarki	ilem my conding salin	the followers on	5, Which of
1. Which of the f	ollowing statements re	egarding the cube strengt	th of concrete are	correct?
(i) Strength inc	reases with decrease is	n cube size		C) atsishoa
(ii) Strength d	ecreases with increase	se in slenderness ratio	Time: 60 min. (	iii) Strength
increases with in	crease in slenderness	ratio		
(iv) Strength de	creases with decrease	s in cube size		
(A) (i) and (ii) a	re correct	(B) (i), (ii), (iii) are c	orrect an belief	
(C) (i) and (iii) a	re correct	(D) All the above		
2. Which of the f	ollowing statements re	egarding properties of co	ncrete are correct	? Concrete intx
(p) Modulus of	elasticity of M25 grad	e of concrete is 25000 M	IPa.	
(q) Approximat	e value of shrinkage s	strain of concrete is 0.000	03	
(r) pH value of	water used in concret	e construction should no	t be less than 6.	III bms II (D)
(A) p and q are	correct	(B) p a	nd r are correct (	C) q and r are
correct	(D)	all the above are correct	t to visitude to	Modulus
3.The long term	modulus of elasticity	of M25 grade concrete	with q value at 7	days to be 2.2
is				
(A) 25000 MPa		7812.5 MPa		

(C) 3500 MPa	
--------------	--

#### (D) None

- 4.Consider the following statements regarding the air entrained concrete? (1) Increased resistance to freezing and thawing
- (2) Improvement in workability.
- (3) Increase in strength.
- (4) Permits reduction in water content of these,
- (A) 1, 2, 4 are correct
- (B) 2, 3, 4 are correct
- (C) 1, 3, 4 are correct
- (D) All the above are correct
- 5. Which of the following statements regarding admixtures are correct? (A) Retards the setting of cement (B) Accelerates the setting of cement (C) Improves the workability of concrete (D) All the above
- 6. Consider the following statements:
- I. The compressive strength of concrete decreases with increase in water cement ratio of the concrete mix.
- II. Water is added to the concrete mix for hydration of cement and workability.
- III. Creep and shrinkage of concrete are independent of the water cement ratio in the concrete mix.

The true statements are

(A) I and III

(B) I, II, III OO IO HIETE SHEET WITH TO SELECT STRAIN OF CORP. (D)

- (C) II and III
- (D) I and II
- 7. Consider the following statements:
- I. Modulus of elasticity of concrete increases with increase in compressive strength of concrete
- II. Brittleness of concrete increases with decrease in compressive strength of concrete.
- III. Shear strength of concrete increases with increase in compressive strength of concrete.

The true statements are	
(A) I and III (B) I, II, III	
(C) II and III (D) I and II	
8. Consider the following statements:	
(p) Nominal mix proportions for M20 grade concrete is 1 : 1.5 :	(C) 45 liters/m3
(q) Weight batching is preferred compared to nominal (volume)	batching show (C)
(r) Maximum cement content as per IS456-2000 is 450 kg/m3	
(A) p, q are correct (B) p, r are correct	
(C) q, r are correct (D) p, q and r are correct	(q) As per 18456-2000, Inc.
9. Which of the following statements given below are correct.	sand.
(p) Nominal cover to reinforcement is based on serviceability or	durability requirements
(q) Factors affecting the durability of concrete are w/c and maximum.	mum cement content
(r) Minimum cement content is not based on exposure conditions	(C) p. q and r are true
(A) p, q, r are correct (B) p and q are correct	
(C) p and r are correct (D) only p is correct	(p) In mild environment art
10. Consider the following statements regarding the addition of p	ozzolanas to cement causes
(p) Increase in strength (q) Less heat of hydration (r) Decrease i	n workability has a second O
The true statements are	
(A) p, q, r are correct (C) p and r are correct	p and q are correct
(B) p and q are correct (D) q only is correct	
11. The composition of air entrained concrete is given below:	
Water: 180 kg/m3	
Ordinary Portland cement: 360 kg/m3	
Sand: 601 kg/m3 Coarse aggregate: 1160 kg/m3	

Assume the specific gravity of OPC, sand	and coarse aggregate to	be 3.10, 2.65 and 2.74
respectively, the air content in liters/m3 is _	II. At J	
(A) 53 liters/m3		(C) Head III (D)
(B) 50 liters/m3		
(C) 45 liters/m3		
(D) None graduari (smalar) lanie		
12.Consider the following statements		
(p) Nominal maximum size of coarse aggreg	gate to be used in R.C.C is	3 20 mm
(q) As per IS456-2000; fine sand to be used	d in R.C.C should confirm	to zone II and medium
sand.		9 Which of the letterying
(r) Minimum grade of concrete to be used in	R.C.C is M30 The true s	tatements are
(A) p and q are true (B) p and r are	re true (2003) la vindanabi	
(C) p, q and r are true (D) q and r a	re true o based ion at mah	
13. Which of the following statements given	below are correct?	
(p) In mild environment, surface crack widt	h should not exceed 0.3 m	m as per IS456-2000.
(q) Crack width increases with increase in s	stress in reinforcement bar	10,Consider the following
(r) Concrete and steel exhibit high strength a	after being subjected to hi	gh temperature.
(A) p and r are correct (B) p, q a	and r are correct	
(D) None	(C) p and t are cos	
14. The ratio of the volume of air voids to the	e volume of voids, is calle	ritt pranciques conve <b>b</b>
Ay void ratio	B. air content	are no morning map of Fills
C. degree of saturation	D. Porosity	
15. The specific gravity of sandy soils is		

<u>A.</u>	1.2



<u>C.</u> 2.2

**D.** 2.7

16. According to Indian standards, the dispersing solution used in pipette method, for the determination of size of particle consists of

7 g sodium carbonate, 43 g sodium

7 g sodium carbonate, 33 g sodium

- A. hexameta-phosphate and 1 litre distilled water
- B. hexameta-phosphate and 1 litre distilled water

7 g sodium carbonate, 23 g sodium

- C. hexameta-phosphate and 1 litre distilled water
- $\underline{\mathbf{D}}$ . any one of the above

17. The water content in a soil at which just shear strength develops is called

A. liquid limit

B. plastic limit

C. elastic limit

D. shrinkage limit

18. Which of the following gives the correct decreasing order of the densities of a soil sample?

- A Saturated, submerged, wet, dry
- B. Saturated, wet, submerged, dry
- C. Saturated, wet, dry, submerged
- **D.** Wet, saturated, submerged, dry

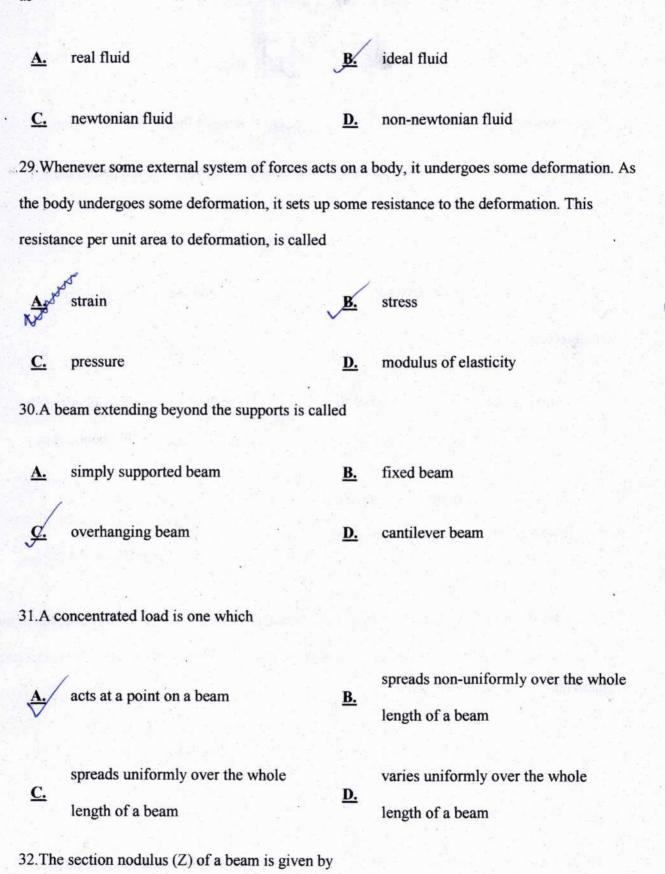
19. The ratio of the unconfined compressive strength of undisturbed soil to the unconfined compressive strength of soil in a remoulded state, is called

<u>A.</u>	sensitivity	11 12	<u>B.</u>	thixotropy		
<u>C.</u>	relative density		<u>D.</u>	bulk density		2
20.A b	ody floating in a liquid is sa	id to be in r	neutral ec	uilibrium, if its meta	centre	
<u>A.</u>	coincides with its centre of	-		lies above its centre	-	
				lies between the ce	ntre of buova	nest
C.	lies below its centre of gra-		D.	hes between the ce	niic of ouoya	псу
_	miled syares		<b>T</b>	and centre of gravi	ty lealing li	
21.A f	low through an expanding tu	be at consta	ant rate is	scalled		
<u>A</u>	steady uniform flow		<u>B.</u>	steady non-uniforn		
<u>C.</u>	unsteady uniform flow		<u>D.</u>	unsteady non-unifo	orm flow	
22.The	e total energy of a liquid part	icle in moti	on is equ	al to		
	pressure energy + kinetic e	energy +		pressure energy - (	kinetic energy	/ +
<u>A.</u>	potential energy		₹.	potential energy)		
	or of the densities of a soil si			•		
	potential energy - (pressure	e energy +		kinetic energy - (pr	ressure energy	<i>i</i> +
<u>C.</u>	kinetic energy)		<u>D.</u>	potential energy)		
				Province of the control of the contr		
	e discharge over a rectangul					
<u>A.</u>	inversely proportional to H	13/2	<u>B.</u>	directly proportion	al to H3/2	
C	inversely proportional to H			directly proportion		

sill or crest	<u>B.</u>	nappe or vein
orifice	<u>D.</u>	none of these
e total energy line lies over the hydraulic	gradien	at line by an amount equal to the
pressure head	<u>B.</u>	velocity head
pressure head + velocity head	<u>D.</u>	pressure head - velocity head
ect the wrong statement		
An equivalent pipe is treated as an ordinary pipe for all calculations	<u>B.</u>	The length of an equivalent pipe is equal to that of a compound pipe
The discharge through an equivalent pipe is equal to that of a compound	<u>D.</u>	The diameter of an equivalent pipe is equal to that of a compound pipe
	pressure head  pressure head + velocity head  ect the wrong statement  An equivalent pipe is treated as an ordinary pipe for all calculations  The discharge through an equivalent	pressure head  pressure head + velocity head  ect the wrong statement  An equivalent pipe is treated as an ordinary pipe for all calculations  B.  B.  B.  D.  B.  D.  B.  The discharge through an equivalent

turbulent flow steady flow vortex flow uniform flow <u>C.</u> <u>D.</u>

28.fluid whose viscosity does not change with the rate of deformation or shear strain is known



<u>A.</u> /	I/y		<u>B.</u>	Ly	
	y/I		<u>D.</u>	M/I	
33. bea	am of T-section is subje	cted to a shear for	ce of F	F. The maximum shear force will oc	cur at
<u>A.</u>	top of the section		<u>B.</u>	bottom of the section	
<u>C.</u>	neutral axis of the sect	ion	<u>D</u> ,	junction of web and flange	
84.A r	ectangular beam of leng	th I supported at it	s two	ends carries a central point load W.	The
naxim	num deflection occurs				
<u>A.</u>	at the ends		<u>B.</u>	at 1/3 from both ends	
<u>C.</u>	at the centre		<u>D.</u>	none of these	
5.The	e load required to produc	ce a unit deflection	n in a s	spring is called	
<u>A.</u>	flexural rigidity		<u>B.</u>	torsional rigidity	

36. The Rankine's theory for active earth pressure is based on the assumption that

spring stiffness

<u>C.</u>

the retained material is homogeneous  $\underline{\mathbf{A}}$ .  $\underline{\mathbf{B}}$ . the frictional resistance between the retaining wall and the retained

Young's modulus

### material is neglected

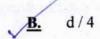
<u>C.</u>	takes place along a plane called	<u>D.</u>	all of the above
	rupture plane		
37. If p	percentage reduction in area of a certain spe	ecime	n made of material 'A' under tensile test is
60% a	nd the percentage reduction in area of a spe	cimer	with same dimensions made of material
'B' is 4	0%, then		
<u>A.</u>	the material A is more ductile than material B	<u>B.</u>	the material B is more ductile than material A
<u>C.</u>	the ductility of material A and B is equal	<u>D.</u>	the material A is brittle and material B is ductile
38. Fa	ctor of safety is defined as the ratio of		- 150
		/	
<u>A.</u>	ultimate stress to working stress	<u>B.</u>	working stress to ultimate stress
<u>C.</u>	breaking stress to ultimate stress	<u>D.</u>	ultimate stress to breaking stress
39. Th	e failure of foundation of a building is due	to	
<u>A.</u>	withdrawl of subsoil moisture	<u>B.</u>	unequal settlement of soil
<u>C.</u>	lateral escape of the supporting material	<u>D.</u>	all of these

the failure of the retained material

<b><u>A.</u></b>	increasing the depth of footing	<u>B.</u>	draining the sub-soil water
<u>C.</u>	ramming the granular material like crushed stone in the soil	<u>D.</u>	all of the above
41. bi	rick masonry, for good bonding		
<u>A.</u>	all bricks need not be uniform in size	<u>B.</u>	bats must be used in alternate courses only
<u>C.</u>	vertical joints in alternate courses should fall in plumb	<u>D</u> /	cement mortar used must have surkhi as additive
42. Th	e size of a step commonly adopted for re-	sidential	buildings is
<u>A.</u>	250 mm x 160 mm	<u>B</u> ,	270 mm x 150 mm
<u>C.</u>	300 mm x 130 mm	<u>D.</u>	350 mm x 100 mm
43.A v	weir, generally, used as a spillway of a da	m is	
<u>A.</u>	narrow crested weir	<u>B.</u>	broad crested weir
<u>C.</u>	Ogee weir	D.	submerged weir
44 Th	e hydraulic mean denth for a circular nine	of dian	nator (d) is

40. The bearing capacity of soils can be improved by

A. d/6



<u>C.</u> d/2

<u>D.</u> d

· 45. The coefficient of venturiflume, generally lies between

A. 0.3 to 0.45

**B.** 0.50 to 0.75

C. 0.75 to 0.95

**D.** 0.95 to 1.0

Name: Sreehau KK

<b>.</b>	**								
Roll	No:-	•••	٠.	••	٠.				



# SREE NARAYANA GURU COLLEGE OF ENGINEERING <u>&</u> TECHNOLOGY

Internal Test	Academic Year/Semester	2022-23 / S6
Subject name with code	Branch	
Date of Exam	Duration	
Starting time	Max. Marks	

3				
Starting time		***************************************	Max. Marks	
			ь.	
Chemical weathe	ering of soil is caused due	to		
	ender i in di <del>ne</del> s de la companya de			
A. oxidation		<b>B</b> .	hydration	
C. carbonati	on and leaching	D.	all of these	
The man	!!blab is -6blas	·	din n	
The property of	a soil which is of great imp	portance in fine	ding settlement of structures	i, IS
<ol><li>A. permeab</li></ol>	pility	В.	sher strength	
g. consolida	ation	D.	compressibility	
y. consolide	icion	٥.	compressionicy	
		1 2		
The ratio of the	volume of air voids to the	volume of voice	is, is called	
<ol><li>A. void ratio</li></ol>	<b>.</b>	В.	air content	
C. degree o	of saturation	D.	Porosity	
c. degree o	Saturation	ъ.	Polosicy	
The ratio of the	unit weight of soil solids to	that of water	is called	
A. void ratio	0	В.	porosity	
	- 20000000 <del>-</del>			
o specific o	ravity	D.	degree of saturation	

soil sample is having a specific gravity of 2.60 and a void ratio of 0.78. The water content in percentage required to fully saturate the soil at that void ratio will be

A. 10

B. 30

C. 50

D. 70

The specific gravity of sandy soils is

A. 1.2

B. 1.8

C. 2.2

D. 2.7

According to Indian standards, the dispersing solution used in pipette method, for the determination of size of particle consists of

- 7 g sodium carbonate, 43 g sodium

  A. hexameta-phosphate and 1 litre distilled
- 7 g sodium carbonate, 33 g sodium hexameta-phosphate and 1 litre distilled water
- 7 g sodium carbonate, 23 g sodium
- C. hexameta-phosphate and 1 litre distilled water
- D. any one of the above

When the hydrometer analysis is performed, it requires correction for

A. temperature only

water

B. meniscus only

C. dispersing agent only

D. all of these

If the volume of voids is equal to the volume of soil solids, then the values of porosity and void ratio are respectively

A. 0 and 0.5

B. 0 and 1

Ç. 0.5 and 1

D. 1 and 0.5

A soil having uniformity co-efficient more than 10, is called

A.

uniform soil

B. poor soil

C. well graded soil

D. coarse soil

According to Indian standards, in a 2 mm sieve

A. there are two holes

- B. each sieve is circular and its diameter is 2 mm
- c. each hole is a square and its side is 2
- D. there are two holes per cm length of the mesh

The water content in a soil at which just shear strength develops is called

A. liquid limit

B. plastic limit

C. elastic limit

D. shrinkage limit

The ratio of the unconfined compressive strength of undisturbed soil to the unconfined compressive strength of soil in a remoulded state, is called

A. sensitivity

B. thixotropy

c. relative density

D. bulk density

The liquid limit minus plastic limit is termed as

A. flow index

B. plasticity index

shrinkage index

D. liquidity index

The water content of soils can be accurately determined by

A. sand bath method

B. calcium carbide method

C. over drying method

D. Pycnometer method

Which of the following gives the correct decreasing order of the densities of a soil sample?

- A
- Saturated, submerged, wet, dry
- B. Saturated, wet, submerged, dry

- C. Saturated, wet, dry, submerged
- D. Wet, saturated, submerged, dry

For a given soil mass, the void ratio is 0.60, water content is 18% and specific gravity of the soil particles is 2.6. The degree of saturation of the soil is

A. 30%

B. 50%

C 78%

D. 82.50%

The relation between the air content (ac) and the degree of saturation (s) is

A. ac = s

B. ac = 1 - s

C. ac = 1 + s

D. ac = 1/s

The minimum size of grains of silts is about

A. 0.0002 mm

B. 0.002 mm

C. 0.02 mm

D. 0.2 mm

Chemical weathering of soil is caused due to

A. oxidation

- B. hydration
- C. carbonation and leaching
- D. all of these



C.

degree of saturation

## SREE NARAYANA GURU COLLEGE OF ENGINEERING \*\* TECHNOLOGY

Internal Test	Academic Year/Semester	2022-23 / S6
Subject name with code	Branch	
Date of Exam	Duration	
Starting time	Max. Marks	

Chem	ical weathering of soil is cause	d due to
A.	oxidation	B. hydration
c.	carbonation and leaching	all of these
The p	roperty of a soil which is of gr	eat importance in finding settlement of structures, is
A.	permeability	B. sher strength
c.	consolidation	D compressibility
The ra	atio of the volume of air voids	to the volume of voids, is called
Α.	void ratio	B. air content

Porosity

The ratio of the unit weight of soil solids to that of water is called

A. void ratio B porosity

C. specific gravity D. degree of saturation

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50 c.

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A. 1.2 1.8

c. 2.2 D. 2.7

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When the hydrometer analysis is performed, it requires correction for

temperature only

meniscus only В.

C. dispersing agent only D. all of these

If the volume of voids is equal to the volume of soil solids, then the values of porosity and void ratio are respectively

0 and 0.5

0 and 1

C. 0.5 and 1 1 and 0.5

A soil having uniformity co-efficient more than 10, is called

uniform soil A.

poor soil

C. well graded soil

D. coarse soil

According to Indian standards, in a 2 mm sieve

A. there are two holes

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A. liquid limit

B. plastic limit

C. / elastic limit

D. shrinkage limit

The ratio of the unconfined compressive strength of undisturbed soil to the unconfined compressive strength of soil in a remoulded state, is called

A. /sensitivity

B. thixotropy

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D. bulk density

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### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Internal Test	Academic Year/Semester	2022-23 / S6
Subject name with code	Branch	
Date of Exam	Duration	
Starting time	Max. Marks	

Intern	al Test	Academic Year/Seme	ester 2022-23
Subject with c	ct name ode	Branch	
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c.	consolidation	D. compressibility	
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A.	void ratio	B. air content	
c.	degree of saturation	D. Porosity	
The ra	tio of the unit weight of soil solids t	o that of water is called	
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degree of saturation

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B. meniscus only

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A. 0 and 0.5

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C. 0.5 and 1

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- C. Saturated, wet, dry, submerged
- D. Wet, saturated, submerged, dry

For a given soil mass, the void ratio is 0.60, water content is 18% and specific gravity of the soil particles is 2.6. The degree of saturation of the soil is

A. 30%

B. 50%

c. 78%

D. 82.50%

The relation between the air content (ac) and the degree of saturation (s) is

C. 
$$ac = 1 + s$$

The minimum size of grains of silts is about

A. 0.0002 mm

B. \_\_\_ 0.002 mm

C. 0.02 mm

D. 0.2 mm

Chemical weathering of soil is caused due to

A. oxidation

- B. hydration
- C. carbonation and leaching
- D. all of these



### SREE NARAYANA GURU COLLEGE OF ENGINEERING \*\*ECHNOLOGY\*\*

#### **COURSE TEAM MEETING CHECKLIST**

SEMESTER: VIII

DATE OF THE MEETING: 423

VENUE: CE Dept.

TIME: 10 AM

1. NAME OF THE FACULTY: REVETHI-P

2. DEPARTMENT: CHILL CHIGHNECRING

3. SUBJECT CODE AND NAME: CET 404, COMPREHENSIVE COURSE VIVA

4. DETAILS REGARDING THE SUBJECT:

WHETHER HANDLING SUBJECT FOR THE FIRST TIME? IF NOT MENTION THE COUNT EXCLUDING THIS TIME	YES
TARGET PASS PERCENTAGE	100%
NATURE OF THE SUBJECT	EASY / MODERATE / TOUGH
CPS	COMPLETED / NOT COMPLETED
ATTENDANCE REGISTER	COMPLETED / NOT COMPLETED
ASSESSMENT PLAN	FILED / NOT FILED
ACADEMIC CALENDAR	FILED / NOT FILED
QP & SCHEME OF FIRST ASSIGNMENT	AVAILABLE / NOT AVAILABLE
QP & SCHEME OF SERIES TEST 1	AVAILABLE / NOT AVAILABLE
FEEDBACK OF THE TUTOR REGARDING THE CLASS	-
ACTION PLAN BY THE FACULTY TO ACHEIVE TARGET PASS PERCENTAGE	-
ANY OTHER REMARKS FROM THE FACULTY	_



COURSE CHAIRMAN





### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

#### DEPARTMENT OF CIVIL ENGINEERING

### CET404 COMPREHENSIVE VIVA VOCE CUMULATIVE ATTENDENCE

SL NO.	REG NO	NAME	ATTENDENCE (%)	ATTENDENCE (Marks)
1	SNC19CE001	AADITHYA KRISHNAN.C	87	9
2	SNC19CE002	ABHIRAMY RAJ	90	10
3	SNC19CE003	AKASH.P.V	87	9
4	SNC19CE004	ANANDHU ASHOK KP	83	8
5	SNC19CE005	ANANJANA.C	93	10
6	SNC19CE006	ANJALI MP	87	9
7	SNC19CE007	ANJANA.C	87	9
8	SNC19CE008	ASHAYA RAMESH	93	10
9	SNC19CE009	ASWITHA GANGADHARAN	87	9
10	SNC19CE010	ATHIRA ARUN K	87	9
11	SNC19CE011	AYSHATH SAIFA	77	7
12	SNC19CE012	KRISHNA PRASAD S L	83	8
13	SNC19CE013	MUHAMMED HANNAN	77	7
13	SNC19CE014	MUHAMMED RUFAID M	67	5
15	SNC19CE015	NIKHIL SALK	90	10
16	SNC19CE016	PRANAV.A.K	77	7
17	SNC19CE017	PRAYAG PRABHAKARAN	77	7
18	SNC19CE018	SACHIN SURENDRAN.M	77	7
19	SNC19CE019	SHAMSHAD.P.V	77	7
20	SNC19CE020	SILNA.M	83	8
21	LSNC19CE021	SREEHARI K K	87	9

[HOD, CE]

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# APJ Abdul Kalam Technological University CET Campus, Thiruvananthapuram Kerala -695016 India

#### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Students Examination Eligibility Details

Academic Year: 2022 - 2023

Degree Type: Regular

Program:

**Branch: CIVIL ENGINEERING** 

Semester: S8

B.Tech(Full Time)

Course Name: COMPREHENSIVE VIVA VOCE-

Batch: 1

**CET404** 

**Eligibility For: Pursuing Students** 

Period of Registration: NA

Student Name	Attendance %, Internal Marks/50	Availed Leaves	Disc. Action	Eligible for Written Exam	Status:	In- eligibility Type
AADITHYA KRISHNAN C Register No : SNC19CE001	Attendance : 87.0 Internal Marks : 44.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ABHIRAMY RAJ Register No : SNC19CE002	Attendance : 90.0 Internal Marks : 45.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
AKASH P V Register No : SNC19CE003	Attendance : 87.0 Internal Marks : 42.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ANANDHU ASHOK K P Register No : SNC19CE004	Attendance : 83.0 Internal Marks : 41.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	

2	W		 		
ANANJANA C Register No : SNC19CE005	Attendance : 93.0 Internal Marks : 44.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
ANJALI M P Register No : SNC19CE006	Attendance : 87.0 Internal Marks : 44.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
ANJANA C Register No : SNC19CE007	Attendance : 87.0 Internal Marks : 46.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
ASHAYA RAMESH Register No : SNC19CE008	Attendance : 93.0 Internal Marks : 46.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
ASWITHA GANGADHARAN Register No : SNC19CE009	Attendance : 87.0 Internal Marks : 46.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
ATHIRA ARUN K Register No : SNC19CE010	Attendance : 87.0 Internal Marks : 44.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
AYSHATH SAIFA Register No : SNC19CE011	Attendance : 77.0 Internal Marks : 38.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
KRISHNA PRASAD S L Register No : SNC19CE012	Attendance : 83.0 Internal Marks : 43.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
MUHAMMED HANNAN Register No : SNC19CE013	Attendance : 77.0 Internal Marks : 38.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
MUHAMMED RUFAID M Register No : SNC19CE014	Attendance : 67.0 Internal Marks : 0.0/50	Long Leave : Yes Duty Leave :	Yes	Submitted by college	

NIKHIL SAI K Register No : SNC19CE015	Attendance : 90.0 Internal Marks : 42.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
PRANAV A K Register No : SNC19CE016	Attendance : 77.0 Internal Marks : 37.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
PRAYAG PRABHAKARAN Register No : SNC19CE017	Attendance : 77.0 Internal Marks : 40.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
SACHIN SURENDRAN M Register No : SNC19CE018	Attendance : 77.0 Internal Marks : 38.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
SHAMSHAD PV Register No : SNC19CE019	Attendance : 77.0 Internal Marks : 37.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
SILNA M Register No : SNC19CE020	Attendance : 83.0 Internal Marks : 43.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	
SREEHARI K K Register No : LSNC19CE021	Attendance : 87.0 Internal Marks : 46.0/50	Long Leave : Duty Leave :	Yes	Submitted by college	

#### FORM P05/01

#### **ANNEXURE 1**

#### PEER SUPPORT FOR LEARNING & TEACHING THROUGH OBSERVATION

#### PART 1: PRE-OBSERVATION MEETING

The faculty being observed should complete this form in preparation for a short meeting with their peer observation group / observer prior to the session to be observed.

#### Peer Observation Group:

- 1. Name & Department Ms. Shamya Sukumanan, CE...
- 2. Name & Department Ms. Revalbr P., CE

#### Details of Teaching / Learning Session to be observed:

Observed: Revalhi P.	Observer: Shamya Sukumanar
----------------------	----------------------------

Day/ Date / Time: 22/5/23 10 AM Group / Location: Se Ce | classoroom

Type of Session / Duration: Mt. Ua. ... lha...... No of Students: .21......

Topic / Title of Session: ENVIRONMENTAL ENGINEERING

What are the objectives for the session (both for you and for the students)?

objective type questions based on environmental engeneesing

Signature of policy approving authority CHAIRMAN Date of approval: 22/5/23

Joseph

CHOD, CE)

What would you like feedback on? (e.g. use of visual aids / the white board, your voice, interaction with the students, pace, use of examples, use of new techniques etc.)

- interaction with students.

Are there any factors which the observer needs to be aware of? (e.g. problems relating to the group or individual students, you are trying out something new etc.)

- NIL

Signature of policy approving

authority

CHAIRMAN

Date of approval: 22/5/22

, PAYYANUR

### CCV → SAMPLE QUESTIONS

- 1. The mass per unit volume of a liquid at a standard temperature and pressure is called
- 2. The volume per unit mass of a liquid is called specific volume
- 3. The weight per unit volume of a liquid at a standard temperature and pressure is valled
  - 4. The specific weight of water in S.I. units is taken as
- 5. The ratio of specific weight of a liquid to the specific weight of pure water at a standard temperature is called
- 6. The specific gravity has no units
- 7. The specific gravity of water is taken as
- 8. The specific weight of sea water is
- 9. The density of a liquid in kg / m3 is numerically equal to its specific gravity.
- 10. The specific weight is also known as weight density.
- 11. The mass of 2.5 m3 of a certain liquid is 2 tonnes. Its mass density is
- 12. The specific gravity of an oil whose specific weight is 7.85 kN/m3, is in
- 13. The property of a liquid which offers resistance to the movement of one layer of liquid over another adjacent layer of liquid, is called 6
- 14. Kinematic viscosity is the product of dynamic viscosity and the density of the liquid.
- 15. The force per unit length is the unit of  $\aleph$
- 16. The variation in the volume of a liquid with the variation of pressure is called its 🐞 🥠
- 17. The property of a liquid which enables into resist tensile stress is called its surface tension
- 18. When a tube of smaller diameter is dipped in water, the water rises in the tube due to viscosity of water.
- 19. When a tube of smaller diameter is dipped in water, the water rises in the tube with an upward

- 20. A glass tube of smaller diameter is used while performing an experiment for the capillary rise of water because
- 21. The mercury does not wet the glass. This is due to the property of the liquid known as
  - 22. With an increase in size of tube, the rise or depression of liquid in the tube due to surface tension will
  - 23. In the manufacturing of lead shots, the property of surface tension is utilised.
- 24. The unit of surface tension is
- 25. The viscosity of a liquid is due to cohesion of its particles.
- 26. Falling drops of water become spheres due to the property of %
  - 27. The intensity of pressure at any point, in a liquid, is
- 28. The pressure at appoint 4m below the free surface of water is
- 29. The height of a water column equivalent to a pressure of 0.15MPa is
- 30. According to Pascal's law, the intensity of pressure at any point in a fluid at rest is the same in all directions
- 31. The pressure measured with the help of a pressure gauge is called
- 32. The atmospheric pressure at sea level is
  - 33. The density of air is same at different heights.
  - 34. When the pressure intensity at a point is more than the local atmospheric pressure, then the difference of these two pressures is called
  - 35. When the pressure intensity at a point is less than the local atmospheric pressure, then the difference of these two pressures is called vacuum pressure.
  - 36. The vacuum pressure is always the negative gauge pressure.
- 37. The absolute pressure is equal to
- 38. The pressure less than atmospheric pressure is known as
- 39. The pressure of a liquid measured with the help of a piezometer tube is

Dr. LEENA A. V.
PRINCIPAL
SREE NARAYANA GURU COLLEGE OF
ENGINEERING & TECHNOLOGY, PAYYANUR

84

- 40. The vacuum pressure can be measured with the help of a piezometer tube.
- 41. The pressure measured with the help of a piezometer tube is in
- 42. A piezometer tube is used only for measuring vo
- 43. The liquid used in manometers should have \
- 44. This resistance per unit area to deformation, is called
- 45. The unit of stress in S.I. units is
- 46. The deformation per unit length is called
- 47. When a body is subjected to two equal and opposite pulls, as a result of which the body tends to extend its length, the stress and strain induced is
- 48. When a body is subjected to two equal and opposite forces, acting tangentially across the resisting section, as a result of which the body tends to shear off across the section, the stress and strain induced is
- 49. Hook's law holds good up to
- 50. The ratio of linear stress to the linear strain is called
- 51. The unit of modulus of elasticity is same as those of
- 52. When a change in length takes place, the strain is known as
- 53. The modulus of elasticity for mild steel is approximately equal to
- 54. Young's modulus may be defined as the ratio of
- 55. Modulus of rigidity may be defined as the ratio of
- 56. Two bars of different materials and same size are subjected to the same tensile force.

  If the bars have unit elongation in the ratio of 2:5, then the ratio of modulus of elasticity of the two materials will be
- 57. Strain rosetters are used to
- 58. A bar of length L metres extends by 1 mm under a tensile force of P. The produced in the bar is

- 59. The maximum stress produced in a bar of tapering section is at
- 60. Modular ratio of the two materials is the ratio of

Xem



### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY PAYYANUR

### DEPARTMENT OF CIVIL ENGINEERING STUDENTS LIST S8 CE

SL.NO	REGISTER NUMBER	NAME OF STUDENT
. 1	SNC19CE001	AADITHYA KRISHNAN.C
2	SNC19CE002	ABHIRAMY RAJ
3	SNC19CE003	AKASH.P.V
4	SNC19CE004	ANANDHU ASHOK KP
5	SNC19CE005	ANANJANA.C
6	SNC19CE006	ANJALI M P
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9	SNC19CE009	ASWITHA GANGADHARAN
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11	SNC19CE011	AYSHATH SAIFA
12	SNC19CE012	KRISHNA PRASAD S L
13	SNC19CE013	MUHAMMED HANNAN
14	SNC19CE014	MUHAMMED RUFAID M
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19	SNC19CE019	SHAMSHAD P.V
20	SNC19CE020	SILNA.M
21	LSNC19CE021	SREEHARI K K

CET404	COMPREHENSIVE COURSE	CATEGORY	L	T	P	CREDIT
CE1404	VIVA	PCC	1	0	0	1

**Preamble:** The objective of this Course viva is to ensure the basic knowledge of each student in the most fundamental core courses in the curriculum. The viva voce shall be conducted based on the core subjects studied from third to eighth semester. This course helps the learner to become competent in placement tests and other competitive examinations.

#### Guidelines

- 1. The course should be mapped with a faculty and classes shall be arranged for practicing questions based on the core courses listed in the curriculum.
- 2. The viva voce will be conducted by the same three member committee assigned for final project phase II evaluation. It comprises of Project coordinator, expert from Industry/research Institute and a senior faculty from a sister department.
- 3. The pass minimum for this course is 25.
- 4. The mark will be treated as internal and should be uploaded along with internal marks of other courses.
- Comprehensive Viva should be conducted along with final project evaluation by the three member committee.

#### **Mark Distribution**

Total marks: 50, only CIE, minimum required to pass : 25 Marks

[HOD, CE]

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ENG SHENK LLOY, PAYYANUR



## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

#### DEPARTMENT OF CIVIL ENGINEERING

#### VISION OF THE DEPARTMENT

 To pursue excellence in Civil Engineering and related technology towards sustainable development and to bring out professionals with futuristic vision

#### MISSION OF THE DEPARTMENT

- To mould students into outstanding Civil Engineers by inculcating technological competency in planning, designing, analyzing and execution, through conducive environment for education and committed faculty.
- To contribute to nation building and development of society through innovation and design of sustainable infrastructure.
- To enhance employability, imbibe professional ethics, encourage entrepreneurship and equip for higher education.

Dr. LEENA A. V.
PRINCIPAL
SREE NARAYANA GURU COLLEGE OF
ENGINEERING & TECHNOLOGY, PAYYANUR
ENGINEERING & TECHNOLOGY, PAYYANUR

<b>CET404</b>	COMPREHENSIVE COURSE CAT	EGORY L T P CREDIT
4 . 4	VIVA	2CC 1 0 0 1

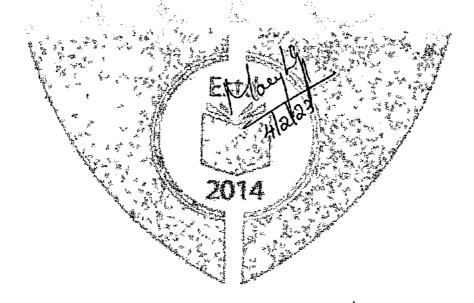
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- 3. The pass minimum for this course is 25.
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Dr. LEENA A. V.

SPEE NAR YAJA GURU C LEGE OF ENGLILERING GY, PAYYANUR

90

DEGREE / BRANCH C.W.I	ENGLINEERING
	SUBJECT CODE CCT. 40.4
SUBJECT COMPREHENSIV	e Course VIVA
	23 ENDING DATE 26/5/23
ACADEMIC YEAR 2022-	2023



### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to AP! Abdul Kalam Technological University, and Managed by Sree Bhakthi Samvardhini Yagam, Talap, Kannar

ATTENDANCE AND

ASSESSMENT RECORD



#### Mission

To provide technical education of the highest quality and standard of excellence for socio-economic progress embedded in clearly articulated values and supported by commitments.

#### Vision

A knowledge society promoting human excellence and enlightenment through effective education.

SREE NARAYANA GURU COLLEGE OF **ENGINEERING & TECHNOLOGY** 

### SREE NARAYANA GURU COLLEGE P.O. CHALAKKODE - PAYYANUR.

Approved by AVTE, New Cellsi, Affiliated to API Abdul Kolom Technological University, and Managed by Sase Bholdthi Samm

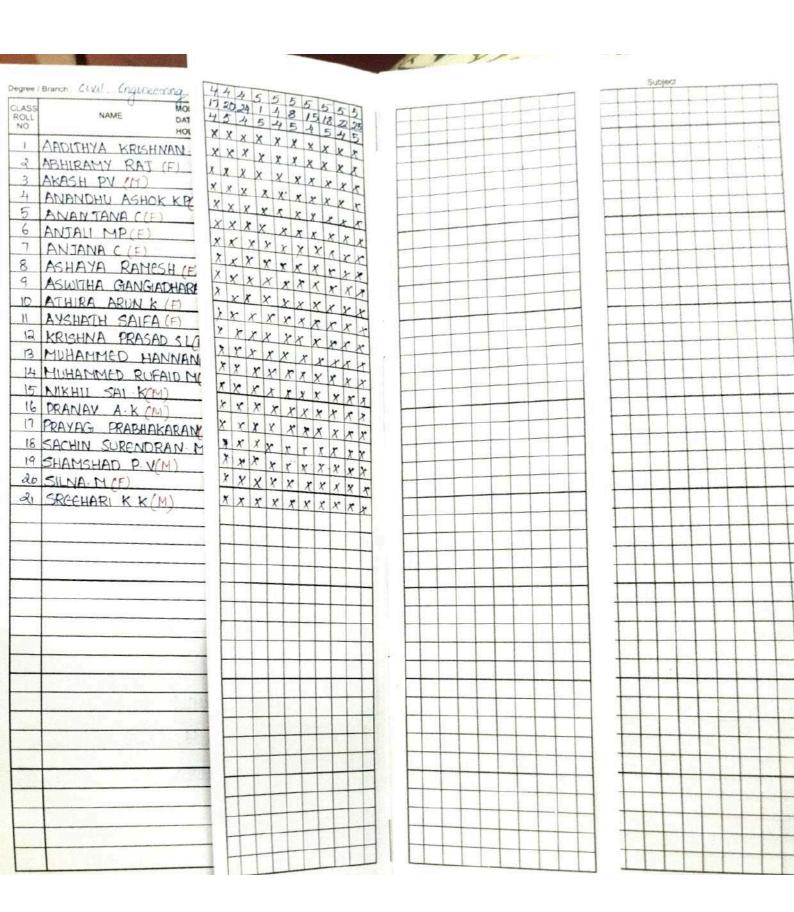
### ATTENDANCE

AND

#### ASSESSMENT RECORD

NAME OF STAFF MS. REVATHI-P DESIGNATION ASSISTANT PROFESSOR DEPARTMENT OVIL ENGINEERING

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### SREE NARAYANA GURU COLLEGE OF ENGINEERING 😞 TECHNOLOGY PAYYANUR

#### DEPARTMENT OF CIVIL ENGINEERING

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5	SNC19CE005	ANANJANA.C	93	10	
6	SNC19CE006	ANJALI MP	87	9	
7	SNC19CE007	ANJANA.C	87	9	
8	SNC19CE008	ASHAYA RAMESH	93	10	
9	SNC19CE009	ASWITHA GANGADHARAN	87	9	
10	SNC19CE010	ATHIRA ARUN K	87	9	
11	SNC19CE011	AYSHATH SAIFA	77	7	
12	SNC19CE012	KRISHNA PRASAD S L	83	. 8	
13	SNC19CE013	MUHAMMED HANNAN	77	7	
13	SNC19CE014	MUHAMMED RUFAID M	67	. 5	
15	SNC19CE015	NIKHIL SAI,K	90	10	
16	SNC19CE016	PRANAV.A.K	77	7	
17	SNC19CE017	PRAYAG PRABHAKARAN	77	7	
18	SNC19CE018	SACHIN SURENDRAN,M	77	7	
19	SNC19CE019	SHAMSHAD.P.V	77	7	
20	SNC19CE020	SILNAM	83	8	
21	LSNC19CE021	SREEHARI K K	87	9	

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Dr. LETNA A. V.
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## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

#### COURSE TEAM MEETING CHECKLIST

SEMESTER: VIII

DATE OF THE MEETING: 423

VENUE: CE Dept-

TIME: 10 . AM

1. NAME OF THE FACULTY: REUPTHI-P

2. DEPARTMENT: CHILL CHISHNECKING

3. SUBJECT CODE AND NAME: CET 404, COMPREHENSIVE COURSE VIVA

4. DETAILS REGARDING THE SUBJECT:

WHETHER HANDLING SUBJECT FOR THE FIRST TIME? IF NOT MENTION THE COUNT EXCLUDING THIS TIME	YES
TARGET PASS PERCENTAGE	100 %
NATURE OF THE SUBJECT	EASY/MODERATE/TOUGH
CPS	COMPLETED / NOT COMPLETED
ATTENDANCE REGISTER	COMPLETED / NOT COMPLETED
ASSESSMENT PLAN	FILED / NOT FILED
ACADEMIC CALENDAR	FILED / NOT FILED
QP & SCHEME OF FIRST ASSIGNMENT	AVAILABLE / NOT AVAILABLE
QP & SCHEME OF SERIES TEST 1	AVAILABLE / NOT AVAILABLE
FEEDBACK OF THE TUTOR REGARDING THE CLASS	<u> </u>
ACTION PLAN BY THE FACULTY TO ACHEIVE TARGET PASS PERCENTAGE	-
ANY OTHER REMARKS FROM THE FACULTY	



COURSE CHAIRMAN

Month



### Sree Narayana Guru College of Engineering & Technology



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

#### INDEX FOR COMPREHENSIVE COURSE VIVA

PARTICULARS		
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SYLLABUS		
COURSE TEAM MEETING CHECKLIST		
ATTENDANCE RECORD		
STUDENT NAMELIST		
PEER EVALUATION		
EVALUATION SHEETS		
CUMMULATIVE ATTENDANCE		
KTU INTERNALS & ATTENDENCE		

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Dr. LTTP A. V.
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#### ANNEXURE 1

FORM P05/01

#### PEER SUPPORT FOR LEARNING & TEACHING THROUGH OBSERVATION

#### **PART 1: PRE-OBSERVATION MEETING**

The faculty being observed should complete this form in preparation for a short meeting with their peer observation group / observer prior to the session to be observed.

#### Peer Observation Group:

- 1. Name & Department Ms. Shamya Sukuroanan, CE...
- 2. Name & Department ... No. .. Revalbr .. P., CE.

Details of Teaching / Learning Session to be observed:

Observed: Revallet: P. Observer: Shanya Sukumanan

Day/ Date / Time: 82/5/23 ... ID.A.M. Group / Location: SECE/ class coom

Topic / Title of Session: ... EMMROMMENTAL ENGINEERING......

What are the objectives for the session (both for you and for the students)?

Objective type questions based on enveronmental engeneering

Signature of policy approving authority CHAIRMAN Date of approval: 22/5/28

Transfer of the

Month

What would you like feedback on? (e.g. use of visual aids / the white board, your voice, interaction with the students, pace, use of examples, use of new techniques etc.)

- interaction with students.

Are there any factors which the observer needs to be aware of? (e.g. problems relating to the group or individual students, you are trying out something new etc.)

- 8/11

Signature of policy approving authority

CHAIRMAN M

Date of approval: 22/5/22

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#### INDEX

Sl. No.	PARTICULARS			
1	DEPARTMENT VISION AND MISSION			
2	SYLLABUS			
3	CPS			
4	STUDENTS NAME LIST			
5	ATTENDANCE RECORD			
6	TUTORIAL / ASSIGNMENT QUESTION PAPER AND SCHEME			
7	SERIES QUESTION PAPER AND SCHEME			
8	COURSE TEAM MEETING FORM			
9	CUMULATIVE ATTENDANCE			
10	INTERNALS STATEMENT			
11	KTU INTERNALS STATEMENT			
12	UNIVERSITY QUESTION PAPER AND VALUATION SCHEME			
13	TUTORIAL/ASSIGNMENTS SAMPLES			
14	SERIES TEST SAMPLES			
15	REMEDIAL SAMPLES			
16	CONTENT BEYOND SYLLABUS – PLAN, EXECUTION AND ASSESSMENT			
17	GAPS IN THE SYLLABUS- PLAN, EXECUTION AND ASSESSMENT			
18	COURSE MATERIALS			
19	CO-PO ATTAINMENT			



# APJ Abdul Kalam Technological University CET Campus, Thiruvananthapuram Kerala -695016 India

#### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Students Examination Eligibility Details

Academic Year : 2022 - 2023

Degree Type: Regular

Program:

**Branch: ELECTRONICS AND COMMUNICATION** 

Semester: S8

B.Tech(Full Time)

**ENGINEERING** 

Course Name: COMPREHENSIVE VIVA VOCE-

Batch: 1

**ECT404** 

**Eligibility For: Pursuing Students** 

Period of Registration : NA

Student Name	Attendance %, Internal Marks/50	Availed Leaves	Disc. Action	Eligible for Written Exam	Status:	In- eligibility Type
ARJUN ASHOK K Register No : SNC19EC001	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	
JITHIN SASIDHARAN N V Register No : SNC19EC002	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	
KEERTHANA C V Register No : SNC19EC003	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	
MARIYAMBI Register No : SNC19EC004	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	

Saishmasachiltanand

#### ECT 404 COMPREHENSIVE COURSE VIVA

1. How can you differentiate signal and wave? Signal is a unipulse which consist of information. wave is a repetative signal

2. What is the difference between deterministic and random signals?

at any instant of time.

Random: - If there is uncertainity with respect to its value

at any instant of time.

At any vistant of time.

3. What are even and odd signals?

Even signal — Symmetrie acound veilical axis eq: - cosine wave.

odd signal — artisymmetric acound to veiliculaxis eq: - Sine wave.

4. What is the difference between power signal and energy signal in terms of energy and power?

Hower signal - A signal whose amplitude is constant oner a infinile duration.

Energy signal \_ A signal is said to be an energy signal if its

5. What is the significance of unit ramp function?

It is a Standard signal at t=0 and initially with

time.

6. What are the applications of initial and final value theorems?

initial value theorem - connecte frequency domain statements to time behavious as approaches to zeeo.

fried value theorem - It is used to find the final value of a function.

7. What is the significance of region of convergence (ROC) of Z transform?

the system.

8. . What is the relationship between z-transform and DTFT?

when r=1, DTFT= z transform

9. What is the difference between DTFT and DFT?

DTFT: disirete time fourier transform.

10. Define invertible system?

A System is called investible of distinct of signals for distinct of signals for distinct of signals.

convolution: - combining 2 signals to form another signal. cornelation: - It is a form of cornelation but with functional

- 12. What are the applications of convolution?
- -> probability
- -> Statitics,
- -> toignal & image Document.

correlation of a signal with delayed copy of steelf. 13. What is autocorrelation?

14. What is the importance of unit impulse function?

The response of a system to any arbitary 1/p can be calculated from the system impulse suspense using a Confedudion integral

15. What are mutually orthogonal functions?

The swovertors are said to be softhogonal if the dot produk is suo.

mutually osthogonal means, every pair of vectors are osthogonal

16. What are the advantages of digital filter over analog filters?

digital filters de not drift from temporature or humidity or enquire pression componens.

17. Define FIR system.

Finde complus impulse response.

18. Define IIR system.

Tofinite impules response

19. Give one example of FIR and IIR filters?

FIR - Butheworth filber

20 .Define overlap add and save method

# ECT 404 COMPREHENSIVE COURSE VIVA

1. What is Modulation? What happens in over modulation?
It is a procus of varying one or now properties of a periodic country called the signal with a separate signal, called the modulator signal that typically artains information to be transmitted. The species emission by the modulated carries and our strutom the necessary and autotions.

Angle meetingth in abich the forgery of sinciplected cause classific from a corps frequency by an amount proporting to the instratoneous value of the message signal.

Constructions of the cause frequency is about the sume as the signal frequency on as an analysis.

Signal frequency on as an analysis.

If the change to the cause frequency is about the sume as the same of the sum of the sum of the sum of the sum of the same of the same

\* sepens sensitivity \* Programy Stability \* selectivity.

4. What is Amplitude Modulation?

mocculation is a tempsque used in electronic

communication: most amountly for themson thing museage with

a sacrio en are: The analy is thereof in property to the

of the museage signal, such as an anchio signal.

15 a astronous signal appropriating some ofthe guartenty

A vollage, emercial or physical quarterly that

Ontroops by one infinitely varies in accordance with some

fine - Varying paremetes.

6. What is aperiodic Signal and periodic Signal?

A signal that close not repeat their after

Specific inferred of the

one that repeats the sequences of Value exactly after a facility legation of their

7. Enlist some advantages of Modulation?

\* multiplesury of signer ocus.

8. What are different types of Modulation?

Analy modulation.

Digital modulation.

pulse modulation.

sposeal speating method.

a social of the former B warred to proposed to

of the restrict that such of so action agricult

9. Explain Square Law Modulator?

one that produces on output voltage en account that is proportional to the square of the speed voltage or airont.

word property some suprementing some

10. What is a precision rectifier?

Configuration obtained with an operational ompaties in each to have a consult to back after the configuration.

co potendgod food whom

on relial diode me supple,

11. What is a multivibrator?

A electronic anout that generally squair,
exceptorqueur, palse, acreform, also cultar our lines oscillativer frontmy grown. Is bayically a 2 amplific cinet
according a segentative that the

Is a comparation essent with hysteresis implemented by applying +ve keeping back to the non munimy lapsy of a comparation or sufferented comparation. Acute winet which are of a comparation or sufferented comparation. Acute winet which are of an orangilp signal to angular of Signal.

13. What are active filters?

Is a type of orally cival hipkmorthy on elcephic follo complete apparts. Typically on omplete

14.what is sampling?

fine signal to discrept fine signal.

15. What is Sampling? Explain Sampling Theorem?

The reduction of a controcus time signal to claracte the signal.

In signal has to be sampled at least with twice the frequent of the angrow signal.

the first of a state of freeze is the sale

112

# ECT 404 COMPREHENSIVE COURSE VIVA

1. How can you differentiate signal and wave? A cuare is a solution of a differential cuare equelty bosically invisored solution. sinusopped soluting ascel to trasse signals. formula an losses of definitions signals?

and original to its value at since instant of the horse on cultiministic signer in nature horse buy are culture surcer signer. 3. What are even and odd signals? randout he is the - sureney wents parts. x(t)=x(-t)Asigned is occur if x(t): -x(-t)4. What is the difference between power signal and energy signal in terms of energy and power? Pool syrul.

\* privadie sgrad ay poary sgred. \* nos prevatic significas mong is outfall as a single - Value finches of one or more believed valuably orbits estains sime information. 5. What is the significance of unit ramp function?

\* Rok pour

\* maile easy

6. What are the applications of initial and final value theorems?

evicuapplicators is electrosic device or circuit. Used to free the steering or trussed state of a finish.

7. What is the significance of region of convergence (ROC) of Z transform?

mig disc is the Z-plane carford and the

8. . What is the relationship between z-transform and DTFT?

DIFT is sences a trussfor.

9. What is the difference between DTFT and DFT?

partial known of the DIFT.

10. Define invertible system?

It produce distinct output signers are for distinct speed signer.

11. What is the difference between convolution and correlation? covolution is the calculation of the proceed of a signey. Is LTI system. two signals. a measurement of similarly blow 12. What are the applications of convolution? probability, statistics, signal processing 13. What is autocorrelation? Sinal assoluting to the associate how before the cuffert parts i's ton. 14. What is the importance of unit impulse function? orbitary isput en calculated from the system impulse response essing envoluting listegray 15. What are mutually orthogonal functions? If their out product is zero.

Europe II on return Down

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on burniculy or require previous company.

17. Define FIR system.

from the cuent of previous isputs.

18. Define IIR system.

mony linear free mount system that are distriguished by having on impulse supress

19. Give one example of FIR and IIR filters?

aighted follows.

and the se as to have

20 .Define overlap add and save method

equel longth segments outh some overlap. by signed of shorts longth and sequence, 19 to signed of shorts longth and certailets the convolution. of each block buy subjectly.

ECT404	COMPREHENSIVE COURSE	CATEGORY	L	Т	P	CREDIT
EC1404	VIVA	PCC	1	0	0	1

**Preamble:** The objective of this Course viva is to ensure the basic knowledge of each student in the most fundamental core courses in the curriculum. The viva voce shall be conducted based on the core subjects studied from third to eighth semester. This course helps the learner to become competent in placement tests and other competitive examinations.

## Guidelines

- 1. The course should be mapped with a faculty and classes shall be arranged for practicing questions based on the core courses listed in the curriculum.
- 2. The viva voce will be conducted by the same three member committee assigned for final project phase II evaluation. It comprises of Project coordinator, expert from Industry/research Institute and a senior faculty from a sister department.
- 3. The pass minimum for this course is 25.
- The mark will be treated as internal and should be uploaded along with internal marks of other courses.
- Comprehensive Viva should be conducted along with final project evaluation by the three member committee.

## **Mark Distribution**

Total marks: 50, only CIE, minimum required to pass : 25 Marks



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

# VISION

 To be a center of excellence in Electronics and Communication Engineering and to create engineers who can address global challenges.

# MISSION

- To provide students with high quality technical education, and to develop their professional and entrepreneurial skills in Electronics and Communication Engineering.
- To enable students for developing different skills, leading to benchmarking and innovations.
- To inculcate in students a high degree of social consciousness and sense of human values.

dus

HOD ECE

Degree / Branch : ..... Subject : MONTH 2 CLASS NAME DATE 22 22 ROLL HOUR NO. Arjun Ashok k Jithin Sasidhaean Mv Keerthana C.V 4 4 5 17 17 3 1 2 1 X 32 X 2. Maryambi Sanishma Sachithanani 4. X X X

	TOTAL HOURS AWARDING OF MARKS		9		ATTEN	88.66	ROLL					
9011				WARD	NG OF	MARK			DANCE %	DAHA	MARK OUT OF	NO
NO.	Hours Present	Tool 1	Tout 2							MARK		-
1	16								100			
2	16								100			-
3	16								100			
Marie Contract									100			
4	16								100			
5	16	-	-		-							
6	_				-							
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Signature of Sen Member

Module Co-ordinator Charthanya . k?





SREE NARAYANA GURU COLLEGE OF ENGINEERING AND TECHNOLOGY, PAYYANUR
Promoted by Sree Bhakthi Samvardhini Yogam
(Affiliated to KTU, Recognised by AICTE)
Cumulative attendance of 2019-2023 EC S8

## SUBJECT: ECT404:COMPREHENSIVE COURSE VIVA

### **TOTAL HOURS:16**

REGISTER NO.	STUDENT NAME	HOUR PRESENT	HOUR ABSENT	PERCENTAGE
SNC19EC001	ARJUN ASHOK K	16	0	100
SNC19EC002	JITHIN SASIDHARAN N V	16	0	100
SNC19EC003	KEERTHANA C V	16	0	100
SNC19EC004	MARIYAMBI	16	0	100
SNC19EC005	SANISHMA SACHITHANAND	16	0	100

COURSE INSTR



# SREE NARAYANA GURU COLLEGE OF ENGINEERING AND TECHNOLOGY, PAYYANUR

# **COURSE TEAM MEETING CHECKLIST**

SEMESTER: R

DATE OF THE MEETING: 3/2/23

VENUE:

Meething Had

TIME: 2.00 pm

1. NAME OF THE FACULTY: Melka.

2. DEPARTMENT: ECE

3. SUBJECT CODE AND NAME: ECT 404 Compachensive Course Viva.

4. DETAILS REGARDING THE SUBJECT:

WHETHER HANDLING SUBJECT FOR THE FIRST TIME? IF NOT MENTION THE COUNT EXCLUDING THIS TIME	Yes
TARGET PASS PERCENTAGE	( <b>6</b> 07 ·
NATURE OF THE SUBJECT	EASY / MODERATE / TOUGH
CPS	COMPLETED / NOT COMPLETED (
ATTENDANCE REGISTER	COMPLETED / NOT COMPLETED
ASSESSMENT PLAN	FILED / NOT FILED
ACADEMIC CALENDAR	FILED / NOT FILED
QP & SCHEME OF FIRST ASSIGNMENT	AVAILABLE / NOT AVAILABLE
QP & SCHEME OF SERIES TEST 1	AVAILABLE / NOT AVAILABLE
FEEDBACK OF THE TUTOR REGARDING THE CLASS	Good
ACTION PLAN BY THE FACULTY TO ACHEIVE TARGET PASS PERCENTAGE	conducting More Viva
ANY OTHER REMARKS FROM THE FACULTY	

HOD3 12h3



# APJ Abdul Kalam Technological University CET Campus, Thiruvananthapuram Kerala -695016 India

SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Students Examination Eligibility Details

Academic Year : 2022 - 2023

Degree Type: Regular

Program:

**Branch: CIVIL ENGINEERING** 

Semester: S6

B.Tech(Full Time)

Course Name: COMPREHENSIVE COURSE

Batch: 1

WORK-CET308

**Eligibility For: Pursuing Students** 

Period of Registration: NA

Student Name	Attendance %, Internal Marks	Availed Leaves	Disc. Action	Eligible for Written Exam	Status:	In- eligibility Type
ABHIJITHA K Register No : SNC20CE001	Attendance : 96.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by faculty	
AKSHAYA PV Register No : SNC20CE002	Attendance : 96.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by faculty	
ALEN ALEX Register No : SNC20CE003	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by faculty	
AMAYA T Register No : SNC20CE004	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :	./.	Yes	Submitted by faculty	+

ANUVINDA P Register No : SNC20CE006	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
APARNA P Register No : SNC20CE007	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
ARJUN KM Register No : SNC20CE008	Attendance : 75.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
FATHIMATHUL MARJAN KP Register No : SNC20CE009	Attendance : 83.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
FATHIMATH ZUHRA Register No : SNC20CE010	Attendance : 83.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
FIZA FARHEEN Register No : SNC20CE011	Attendance : 75.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	7.
KEERTHANA SURENDRAN Register No : SNC20CE012	Attendance : 75.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
MOOHAMMED EBRAHIM Register No : SNC20CE013	Attendance : 75.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
RAJATH MANOHARAN Register No : SNC20CE014	Attendance : 96.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
SAJJAD ZAINUDHEEN Register No : SNC20CE015	Attendance : 83.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	

SHAHANA SHERIN Register No :	Attendance : 83.0	Long Leave : Duty Leave :	Yes	Submitted by faculty
SNC20CE016	Internal Marks :			
SREELAKSHMI K Register No : SNC20CE017	Attendance : 96.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty
SREEVISHNU K Register No : SNC20CE018	Attendance : 96.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty
VAISHNAVI N K Register No : SNC20CE019	Attendance : 88.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty
VYSHNA K Register No : SNC20CE020	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty
ANUPRIYA K Register No : LSNC20CE021	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

# PEER EVALUATION FORM

# FORM 1

# **TO BE FILLED BY THE OBSERVER AND THE OBSERVEE AFTER DISCUSSION**

# PEER SUPPORT FOR LEARNING & TEACHING THROUGH OBSERVATION

## PART 1: PRE-OBSERVATION MEETING

The faculty being observed should complete this form in preparation for a short meeting with their peer observation group / observer prior to the session to be observed.

# Peer Observation Group: 1. Name & Department REVATHI-P. CE 2. Name & Department Da. SUSQO. Abrabaro, CE Details of Teaching / Learning Session to be observed:

Observed: Revathi-P. Observer: Dr. Susan Abraham

Day/ Date / Time: 5 6 23, 3: AM. Group / Location: S6.CE. Classroom

Type of Session / Duration: Mcq. 988 (en lha. No of Students: 20..........

Topic / Title of Session: Mcg. Session on Geotechnical engineering

What are the objectives for the session (both for you and for the students)?

Meg session conducted on geotechnical engineering

Dwar spo 23

OBSERVER

HOD, CE

What would you like feedback on? (e.g. use of visual aids / the white board, your voice, interaction with the students, pace, use of examples, use of new techniques etc.)

- use of Visual Aids.

-> Voice

- interaction with students.

Are there any factors which the observer needs to be aware of? (e.g. problems relating to the group or individual students, you are trying out something new etc.)

NIL

Franklotzz.

OBSCRUER

May (HOD, ce)

Dr. LETTO A. V.
POLL STATE OF CHARLES OF CHA

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	A	
Name:	Aparna	

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# SREE NARAYANA GURU COLLEGE OF ENGINEERING 8 TECHNOLOGY

Internal Test	1	Academic Year/Semester	2022-23 / S6
Subject name with code	CET308 CCW	Branch	CG
Date of Exam	15/2/23	Duration	tha
Starting time	IPM	Max. Marks	45

- 1. Which of the following statements regarding the cube strength of concrete are correct?
- (i) Strength increases with decrease in cube size
- (ii) Strength decreases with increase in slenderness ratio Time: 60 min. (iii) Strength increases with increase in slenderness ratio
- (iv) Strength decreases with decreases in cube size
- (A) (i) and (ii) are correct
- (B) (i), (ii), (iii) are correct
- (C) (i) and (iii) are correct
- (D) All the above
- 2. Which of the following statements regarding properties of concrete are correct?
- (p) Modulus of elasticity of M25 grade of concrete is 25000 MPa.
- (q) Approximate value of shrinkage strain of concrete is 0.0003
- (r) pH value of water used in concrete construction should not be less than 6.
- (A) p and q are correct

(B) p and r are correct (C) q and r are

correct

- (D) all the above are correct
- 3. The long term modulus of elasticity of M25 grade concrete with q value at 7 days to be 2.2

is

(A) 25000 MPa

(B) 7812.5 MPa

(C)	3500	MPa
(-)		1111 0

# (D) None

- 4. Consider the following statements regarding the air entrained concrete? (1) Increased resistance to freezing and thawing
- (2) Improvement in workability.
- (3) Increase in strength.
- (4) Permits reduction in water content of these,
- (A) 1, 2, 4 are correct
- (B) 2, 3, 4 are correct
- (C) 1, 3, 4 are correct
- (D) All the above are correct
- 5. Which of the following statements regarding admixtures are correct? (A) Retards the setting of cement (B) Accelerates the setting of cement (C) Improves the workability of concrete (D) All the above
- 6. Consider the following statements:
- I. The compressive strength of concrete decreases with increase in water cement ratio of the concrete mix.
- II. Water is added to the concrete mix for hydration of cement and workability.
- III. Creep and shrinkage of concrete are independent of the water cement ratio in the concrete mix.

The true statements are

(A) I and III

(B) I, II, III

(C) II and III

(D) I and II

- 7. Consider the following statements:
- I. Modulus of elasticity of concrete increases with increase in compressive strength of concrete
- II. Brittleness of concrete increases with decrease in compressive strength of concrete.
- III. Shear strength of concrete increases with increase in compressive strength of concrete.

The true statemer	its are	
(A) I and III	(B) I, II, III	
(C) II and III	(D) I and II	
8. Consider the fo	llowing statements:	
(p) Nominal mix	proportions for M20	grade concrete is 1 : 1.5 : 3

- (q) Weight batching is preferred compared to nominal (volume) batching
- (r) Maximum cement content as per IS456-2000 is 450 kg/m3
- (C) q, r are correct (D) p, q and r are correct
- 9. Which of the following statements given below are correct.
- (p) Nominal cover to reinforcement is based on serviceability or durability requirements
- (q) Factors affecting the durability of concrete are w/c and maximum cement content

(B) p, r are correct

- (r) Minimum cement content is not based on exposure conditions.
- (A) p, q, r are correct (B) p and q are correct
- (C) p and r are correct (D) only p is correct
- 10. Consider the following statements regarding the addition of pozzolanas to cement causes
- (p) Increase in strength (q) Less heat of hydration (r) Decrease in workability

The true statements are

(A) p, q are correct

(A) p, q, r are correct (C) p and r are correct

(B) p and q are correct (D) q only is correct

11. The composition of air entrained concrete is given below:

Water: 180 kg/m3

Ordinary Portland cement: 360 kg/m3

Sand: 601 kg/m3 Coarse aggregate: 1160 kg/m3

Assume the specific gravity of OPC, sand and coarse aggregate to be 3.10, 2.65 and 2.74
respectively, the air content in liters/m3 is
(A) 53 liters/m3
(B) 50 liters/m3
(C) 45 liters/m3
(D) None
12.Consider the following statements
(p) Nominal maximum size of coarse aggregate to be used in R.C.C is 20 mm
(q) As per IS456-2000; fine sand to be used in R.C.C should confirm to zone II and medium
sand.
(r) Minimum grade of concrete to be used in R.C.C is M30 The true statements are
(A) p and q are true (B) p and r are true
(C) p, q and r are true (D) q and r are true
13. Which of the following statements given below are correct?
(p) In mild environment, surface crack width should not exceed 0.3 mm as per IS456-2000.
(q) Crack width increases with increase in stress in reinforcement bar.
(r) Concrete and steel exhibit high strength after being subjected to high temperature.
(A) p and r are correct (B) p, q and r are correct
(C) p and q are correct (D) None
14. The ratio of the volume of air voids to the volume of voids, is called
A. void ratio B. air content
C. degree of saturation D. Porosity
15. The specific gravity of sandy soils is
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<u>A.</u>	1.2			<u>B.</u>	1.8		
<u>C.</u>	2.2			<u>D.</u>	2.7	=	
16.Acc	cording to India	an standards, ti	he dispersin	g solutio	on used in pipe	ette method, for	the
determ	nination of size	of particle cor	nsists of				
	7 g sodium ca	arbonate, 43 g	sodium		7 g sodium c	arbonate, 33 g	sodium
<u>A.</u>	hexameta-pho	osphate and 1	litre	<u>B.</u>	hexameta-ph	osphate and 1 l	itre
	distilled water	r			distilled water	er	
	7 g sodium ca	arbonate, 23 g	sodium				
<u>C.</u>	hexameta-pho	osphate and 1	litre	D.	any one of th	e above	
	distilled water	r					

17. The water content in a soil at which just shear strength develops is called

A. liquid limit
B. plastic limit
C. elastic limit
D. shrinkage limit

18. Which of the following gives the correct decreasing order of the densities of a soil sample?

- Saturated, submerged, wet, dry

  B. Saturated, wet, submerged, dry
  - $\underline{\mathbf{C}}$ . Saturated, wet, dry, submerged  $\underline{\mathbf{D}}$ . Wet, saturated, submerged, dry

19. The ratio of the unconfined compressive strength of undisturbed soil to the unconfined compressive strength of soil in a remoulded state, is called

A. sensitivity thixotropy <u>C.</u> relative density bulk density 20.A body floating in a liquid is said to be in neutral equilibrium, if its metacentre **A.** coincides with its centre of gravity lies above its centre of gravity В. lies between the centre of buoyancy <u>C.</u> lies below its centre of gravity and centre of gravity 21.A flow through an expanding tube at constant rate is called steady uniform flow steady non-uniform flow unsteady uniform flow unsteady non-uniform flow D. 22. The total energy of a liquid particle in motion is equal to pressure energy + kinetic energy + pressure energy - (kinetic energy + <u>B.</u> potential energy potential energy) potential energy - (pressure energy + kinetic energy - (pressure energy + <u>C.</u> <u>D.</u> kinetic energy) potential energy) 23. The discharge over a rectangular notch is inversely proportional to H3/2 directly proportional to H3/2 <u>A.</u> <u>B.</u>

<u>D.</u>

inversely proportional to H5/2

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directly proportional to H5/2

		/	
<u>A.</u>	real fluid	<u>B.</u>	ideal fluid
<u>C.</u>	newtonian fluid	<u>D.</u>	non-newtonian fluid
29.Wh	nenever some external system of forces	acts on a	body, it undergoes some deformation. As
the bo	dy undergoes some deformation, it sets	up some	resistance to the deformation. This
resista	ance per unit area to deformation, is calle	ed	
<u>A.</u>	strain	<u>B.</u>	stress
<u>C.</u>	pressure	<u>D.</u>	modulus of elasticity
30.A t	beam extending beyond the supports is c	called	
	Section 198		
<u>A.</u>	simply supported beam	<u>B.</u>	fixed beam
<u>C.</u>	overhanging beam	<u>D.</u>	cantilever beam
31.A c	concentrated load is one which		
<u>A.</u>	acts at a point on a beam	<u>B.</u>	spreads non-uniformly over the whole length of a beam
<u>C.</u>	spreads uniformly over the whole length of a beam	<u>D.</u>	varies uniformly over the whole length of a beam
32.Th	e section nodulus (Z) of a beam is given	by	Luc

<u>A.</u>	sill or crest	<u>B.</u>	nappe or vein
<u>C.</u>	orifice	<u>D.</u>	none of these
25.The	total energy line lies over the hydraulic gr	adient	line by an amount equal to the
<u>A.</u>	pressure head	<u>B.</u>	velocity head
<u>c.</u>	pressure head + velocity head	<u>D.</u>	pressure head - velocity head
26 Sele	ect the wrong statement		
20.5010	set the wrong statement		
<u>A.</u>	An equivalent pipe is treated as an ordinary pipe for all calculations	<u>B.</u>	The length of an equivalent pipe is equal to that of a compound pipe
<u>C.</u>	The discharge through an equivalent pipe is equal to that of a compound pipe	<u>D.</u>	The diameter of an equivalent pipe is equal to that of a compound pipe
27.Wh	en a cylindrical vessel, containing some lic	quid, is	rotated about its vertical axis, the liquid
surface	is depressed down at the axis of its rotation	on and	rises up near the walls of the vessel on all
sides.	This type of flow is known as		
<u>A.</u>	steady flow	<u>B.</u>	turbulent flow
<u>C.</u>	vortex flow	<u>D.</u>	uniform flow
28.flui	id whose viscosity does not change with th	e rate	of deformation or shear straints known  Dr. LEENA A. V. PRINGIPAL  SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

24. The sheet of water flowing over a notch or a weir is known as

<u>A</u>	I/y	<u>B.</u>	I.y
<u>C.</u>	y/I	<u>D.</u>	M/I
33. bea	am of T-section is subjected to a shear force	ce of F.	The maximum shear force will occur at
the			
<u>A.</u>	top of the section	<u>B.</u>	bottom of the section
<u>C.</u>	neutral axis of the section	<u>D.</u> /	junction of web and flange
34.A r	ectangular beam of length I supported at it	s two e	ends carries a central point load W. The
maxim	num deflection occurs		
<u>A.</u>	at the ends	<u>B</u> .	at 1/3 from both ends
<u>C.</u>	at the centre	<u>D.</u>	none of these
35.The	load required to produce a unit deflection	n in a sp	pring is called
<u>A.</u>	flexural rigidity	<u>B.</u>	torsional rigidity
<u>C.</u>	spring stiffness	<u>D</u> .	Young's modulus
36. Th	e Rankine's theory for active earth pressur	e is ba	sed on the assumption that

the retained material is homogeneous

and cohesionless

the frictional resistance between the retaining wall and the retained

# material is neglected

	the failure of the retained material	/	
<u>C.</u>	takes place along a plane called	<u>D.</u>	all of the above
	rupture plane		
37. If	percentage reduction in area of a certain s	pecime	n made of material 'A' under tensile test is
60% a	nd the percentage reduction in area of a s	pecimer	with same dimensions made of material
'B' is 4	10%, then		
	the material A is more ductile than	В.	the material B is more ductile than
<u>A.</u>	material B	<u>D.</u>	material A
<u>C.</u>	the ductility of material A and B is	D.	the material A is brittle and material B
	equal		is ductile
38. Fa	ctor of safety is defined as the ratio of		
<u>A.</u>	ultimate stress to working stress	<u>B.</u>	working stress to ultimate stress
~		_	
<u>C.</u>	breaking stress to ultimate stress	<u>D.</u>	ultimate stress to breaking stress
39. Th	ne failure of foundation of a building is du	e to	
<u>A.</u>	withdrawl of subsoil moisture	<u>B.</u>	unequal settlement of soil
	lateral escape of the supporting	LION Y	
<u>C.</u>	material	<u>D.</u>	all of these
		2	Xu
	- Wall		Dr. LEENA A. V. PRINCIPAL
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<u>A.</u>	increasing the depth of footing	<u>B.</u>	draining the sub-soil water
<u>C.</u>	ramming the granular material like crushed stone in the soil	<u>D.</u>	all of the above
41. br	ick masonry, for good bonding		
<u>A.</u>	all bricks need not be uniform in size	<u>B.</u>	bats must be used in alternate courses only
<u>C.</u>	vertical joints in alternate courses should fall in plumb	<u>D.</u>	cement mortar, used must have surkhi as additive
42. Th	e size of a step commonly adopted for res	sidentia	l buildings is
<u>A.</u>	250 mm x 160 mm	<u>B.</u>	270 mm x 150 mm
<u>C.</u>	300 mm x 130 mm	<u>D.</u>	350 mm x 100 mm
43.A v	weir, generally, used as a spillway of a da	m is	
<u>A.</u>	narrow crested weir	<u>B.</u>	broad crested weir
<u>C.</u>	Ogee weir	<u>p.</u>	submerged weir
44.Th	e hydraulic mean depth for a circular pipe	of dia	meter (d) is

40. The bearing capacity of soils can be improved by

A. d/6

B. d/4

<u>C</u>. d/2

- <u>D.</u> d
- 45. The coefficient of venturiflume, generally lies between
  - A. 0.3 to 0.45

**B.** 0.50 to 0.75

**C.** 0.75 to 0.95

**D.** 0.95 to 1.0



# SREE NARAYANA GURU COLLEGE OF ENGINEERING \*\*ECHNOLOGY\*\*

Internal Test	2	Academic Year/Semester	2022-23 / S6
Subject name with code	CET308 CCW	Branch	CE
Date of Exam	29103123	Duration	tha
Starting time	9:00 am	Max. Marks	20

Chemical weathering of	soil is caused of	due to
------------------------	-------------------	--------

A. oxidation

B. hydration

- C. carbonation and leaching
- La. all of these

The property of a soil which is of great importance in finding settlement of structures, is

, A permeability

B. sher strength

C. consolidation

D. compressibility

The ratio of the volume of air voids to the volume of voids, is called

A. void ratio

B. air content

C. degree of saturation

D. Porosity

The ratio of the unit weight of soil solids to that of water is called

A. void ratio

B. porosity

specific gravity

D. degree of saturation

soil sample is having a specific gravity of 2.60 and a void ratio of 0.78. The water content in percentage required to fully saturate the soil at that void ratio will be

10 A

B. 30

C. 50

The specific gravity of sandy soils is

1.2

1.8

2.2

According to Indian standards, the dispersing solution used in pipette method, for the determination of size of particle consists of

- 7 g sodium carbonate, 43 g sodium
- hexameta-phosphate and 1 litre distilled A. water
- 7 g sodium carbonate, 33 g sodium hexameta-phosphate and 1 litre distilled water
- 7 g sodium carbonate, 23 g sodium
- hexameta-phosphate and 1 litre distilled C. water
- any one of the above D.

When the hydrometer analysis is performed, it requires correction for

temperature only A.

meniscus only

C. dispersing agent only all of these

If the volume of voids is equal to the volume of soil solids, then the values of porosity and void ratio are respectively

0 and 0.5

0.5 and 1

1 and 0.5

A soil having uniformity co-efficient more than 10, is called

uniform soil

В. poor soil

D. coarse soil

According to Indian standards, in a 2 mm sieve

A. there are two holes

- B. each sieve is circular and its diameter is 2 mm
- each hole is a square and its side is 2 mm
- D. there are two holes per cm length of the mesh

The water content in a soil at which just shear strength develops is called

A. liquid limit

B. plastic limit

C elastic limit

D. shrinkage limit

The ratio of the unconfined compressive strength of undisturbed soil to the unconfined compressive strength of soil in a remoulded state, is called

sensitivity

**B.** thixotropy

C. relative density

D. bulk density

The liquid limit minus plastic limit is termed as

A. flow index

B. plasticity index

C. shrinkage index

D. liquidity index

The water content of soils can be accurately determined by

A. sand bath method

B. calcium carbide method

c. over drying method

D. Pycnometer method

Which of the following gives the correct decreasing order of the densities of a soil sample?

- A. Saturated, submerged, wet, dry
- Saturated, wet, submerged, dry

C. Saturated, wet, dry, submerged



Wet, saturated, submerged, dry

For a given soil mass, the void ratio is 0.60, water content is 18% and specific gravity of the soil particles is 2.6. The degree of saturation of the soil is

30%

B. 50%

C. 78%

D. 82.50%

The relation between the air content (ac) and the degree of saturation (s) is

D. 
$$ac = 1/s$$

The minimum size of grains of silts is about

A. 0.0002 mm

B.

0.002 mm

C. 0.02 mm

D. 0.2 mm

Chemical weathering of soil is caused due to

A. oxidation

- B. hydration
- C. carbonation and leaching
- D. all of these



### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

### DEPARTMENT OF CIVIL ENGINEERING STUDENTS LIST S6 CE

SL.NO	REGISTER NUMBER	NAME OF STUDENT
1	SNC20CE001	АВНІЈІТНА К
2	SNC20CE002	AKSHAYA PV
3	SNC20CE003	ALEN ALEX
4	SNC20CE004	AMAYA T
5	SNC20CE006	ANUVINDA P
6	SNC20CE007	APARNA P
7	SNC20CE008	ARJUN KM
8	SNC20CE009	FATHIMATHUL MARJAN KP
9	SNC20CE010	FATHIMATH ZUHRA
10	SNC20CE011	FIZA FARHEEN
11	SNC20CE012	KEERTHANA SURENDRAN
12	SNC20CE013	MOOHAMMED EBRAHIM
13	SNC20CE014	RAJATH MANOHARAN
14	SNC20CE015	SAJJAD ZAINUDHEEN
15	SNC20CE016	SHAHANA SHERIN
16	SNC20CE017	SREELAKSHMI K
17	SNC20CE018	SREEVISHNU K
18	SNC20CE019	VAISHNAVI N K
19	SNC20CE020	VYSHNA K
20	LSNC20CE021	ANUPRIYA K



	COMPREHENSIVE	CATEGORY	LT		P	CREDIT	Year of Introduction	
CET308	COURSE WORK	PCC	1	0	0	1	2019	

**Preamble:** The course is designed to ensure that the student have firmly grasped the foundational knowledge in Civil Engineering familiar enough with the technological concepts. It provides an opportunity for the students to demonstrate their knowledge in various Civil Engineering subjects.

Pre-requisite: Nil

Course outcomes: After the course, the student will able to:

CO1	Learn to prepare for a competitive examination			
CO2	Comprehend the questions in Civil Engineering field and answer them with confidence			
CO3	Communicate effectively with faculty in scholarly environments			
CO4	Analyze the comprehensive knowledge gained in basic courses in the field of Civil Engineering			

		P	P	P	P	P	P	P	P	P	PO	PO	PO	PS	PS	PS
8 nsive ork		0	0	0	0	0	0	0	0	0	10	11	12	01	O2	O3
CET 308 omprehensi Course Wor	COI	3	1	1			2							1	1	
CET Compre	CO2	3	1		The same		2			No.	3	1				
Com	CO3	3	1			1	2	The same			3		STEED CO		1	
·	CO4	3	3			1	2									

#### Assessment pattern

Bloom's Category	End Semester Examination (Marks)
Remember	25
Understand	15
Apply	5
Analyze	5
Evaluate	
Create	

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#### **End Semester Examination Pattern:**

A written examination will be conducted by the University at the end of the sixth semester. The written examination will be of objective type similar to the GATE examination. Syllabus for the comprehensive examination is based on following five Civil Engineering core courses.

CET 201- Mechanics of Solids

CET 203- Fluid Mechanics and Hydraulics

CET 205- Surveying& Geomatics

CET 204- Geotechnical Engineering I

CET 309-Construction Technology and Management

The written test will be of 50 marks with 50 multiple choice questions (10 questions from each module) with 4 choices of 1 mark each covering all the five core courses. There will be no negative marking. The pass minimum for this course is 25. The course should be mapped with a faculty and classes shall be arranged for practising questions based on the core courses listed above.

Written examination

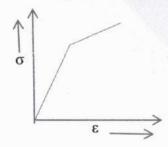
50marks

Total

: 50 marks

#### **Course Level Assessment and Sample Questions:**

- Poisson's ratio for an incompressible isotropic material is:
   A) 0.25
   B) 0.5
   C) Zero
   D) Indeterminate
- 2) The following stress-strain curve is obtained for a material. It indicates



- A) Rigid body behaviour
- B) Perfectly plastic behaviour

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- C) Elastic-linear strain hardening behaviour
- D) Elastic-plastic behaviour
- 3) A principal plane is one where the shear stress will be:
  - A) Maximum B) Minimum C) Zero D) Coverage of principal stress
- 4) In a differential manometer, the flowing fluid is water and the gauge fluid is mercury. If the manometer reading is 100mm, the differential head in meters is:
  - A) 13.6
- B) 1.36
- C)1.47
- D)1.26
- 5) A rectangular open channel carries a flow of 2m<sup>3</sup>/sec/m, what is the value of minimum specific energy?
  - A) 0.74m B) 1.11m C) 1.48m D) 1.85m
- 6) A pipe has diameter 0.4m, length 0.1km and coefficient of friction 0.005. What is the length of an equivalent pipe which has diameter 0.2m and coefficient of friction 0.008? A) 195m B) 19.5m C)1.95m D) 1950m
- 7) The true bearing of a line is 40°30'. Declination is 3°W. The magnetic bearing of line is:
  - A) 43°30'
- B) 37°30'
- C) 36°30'
- D) 44°30'
- 8) Points C and D are 1530m apart across a wide river. The following reciprocal levels are taken with one level.

Level at	Reading on				
	C	D			
C	3.810 m	2.165 m			
D	2.355 m	0.910 m			

The true difference in elevation between C and D is:

- A)1.645 m

- B) 1.545 m C) 1.745 m D) 1.345 m
- 9) Fore bearing of a line is 540°. Declination is 2°W. True bearing of line is:

- B) 218° C) S 42°E D) S 38° E
- 10) The dry density of a soil is 1.5 g/cc. If the saturation water content were 50%, then its saturated density and submersed density would respectively be,
  - A)1.5 g/cc and 1.0g/cc
- B)2.0 g/cc and 1.0 g/cc
- C)2.25 g/cc and 0.25 g/cc

D)2.50 g/cc and 1.50 g/cc

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	limit will be	C)10 50/	D)220/	
A)12%	B)13.5%	C)18.5%	D)22%	
at top and a c clay layer an times the thi ratio of equ	clay layer below. I d one-tenth of the ickness of the san	Permeability of e permeability of d layer and tw al and equiva	the silt layer is 10 tip of the sand layer. Thi o—third of the thick	between a fine—sand layer mes the permeability of the ckness of the silt layer is 2 ness of the clay layer. The ability of the deposit is
13) Which cemer	nt contains high pe	ercentage of C <sub>3</sub>	S and less percentage	e of C <sub>2</sub> S?
and the second s	rdening Cement ) Low Heat Ceme	The state of the s	Portland Cement	C) Quick Setting
	of concrete is mearatus test B) S	The state of the s	finimum void method	d D) Talbot Richard test
15) The shortest	possible time in w	hich an activity	y can be achieved und	der ideal circumstances is

Course Code: CET 308

B) Optimistic time estimate C) Expected time estimate

#### **Comprehensive Course Work**

#### MODULE 1

A) Pessimistic time estimate

D) None of these

Concept of stress and strain, Hooke's law, Stress-strain diagram of mild steel; Axially loaded bars. Temperature stress in composite bars, Poisson's ratio, Elastic constants and the relationship between them. Beams, Concept of bending moment and shear force, Shear force and bending moment diagrams of cantilever beams, simply supported beams and overhanging beams for different type of loads. Theory of simple bending; Shear stress in beams. Principal stresses and principal planes in 2D problems, maximum shear stress; Mohr's circle.

#### **MODULE 2**

Fluid properties; Fluid statics, measurement of fluid pressure. Buoyancy and Floatation: Buoyant force, Principle of floatation, stability of floating and submerged bodies, metacentre and metacentric height; continuity equation in one, two and three dimensions. Bernoulli's equation and its applications; Pipe flow- computation of major and minor losses in pipes, equivalent pipe.

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Open channel flow, velocity distribution in open channels, uniform flow computations, Most economical sections, Specific energy, Critical flow; Hydraulic jump.

#### **MODULE 3**

Introduction to Surveying- Principles, Linear, angular and graphical methods. Bearing of survey lines, Local attraction, Declination; Principles of levelling, Methods of levelling. Theodolite surveying, Measurement of horizontal and vertical angle; Triangulation. Traverse Surveying, Checks in closed traverse; Theory of Errors – Types, theory of least squares, Weighting of observations. Total Station – concept of EDM, principles and working. GPS-Components and principles. Remote Sensing.

#### **MODULE 4**

Definitions and properties of soil, 3 phase system, Index properties of soil, Soil classification, Effective stress, Quick sand condition, Stress distribution, Permeability of soil, Darcy's law, Factors affecting permeability, Laboratory tests, Consolidation, Normally consolidated, over consolidated and under consolidated soils, Time factor, Coefficient of consolidation, Compaction Tests – OMC and MDD, shear strength of soil, Triaxial compression test, Unconfined compression test, Direct shear test and Vane shear test

#### **MODULE 5**

Cement: Manufacturing, chemical composition, Types, Tests, Hydration of cement. Properties of fresh concrete and hardened concrete. Types of stone masonry – composite walls - cavity walls and partition walls - Construction details and features. Finishing works: Plastering, Pointing, Painting – objectives and types. Prefabricated construction – advantages and disadvantages, Prefabricated building components. Causes of failures in RCC and Steel structures. Types of tenders, Types of contracts. Types of Schedules. Network analysis –CPM, PERT – concepts and problems

[HOD, CE]

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### INDEX FOR COMPREHENSIVE COURSE WORK

PARTICULARS
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PEER EVALUATION
SAMPLE QUESTIONS
CUMULATIVE ATTENDENCE
KTU ATTEDENCE SATETEMENT

Dr. LEEPIA A. V.
PROCESTA A. V.
SREE MARAIS ALLA DU POS OF ENGINEERING & VID. A CAY, PARTARES KANDOUR



# APJ Abdul Kalam Technological University CET Campus, Thiruvananthapuram Kerala -695016 India

#### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Students Examination Eligibility Details

Academic Year: 2022 - 2023

Degree Type: Regular

Program:

**Branch: CIVIL ENGINEERING** 

Semester: S6

B.Tech(Full Time)

Course Name: COMPREHENSIVE COURSE

Batch: 1

WORK-CET308

**Eligibility For: Pursuing Students** 

Period of Registration : NA

Student Name	Attendance %, Internal Marks	Availed Leaves	Disc. Action	Eligible for Written Exam	Status:	In- eligibility Type
ABHIJITHA K Register No : SNC20CE001	Attendance : 96.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by faculty	
AKSHAYA PV Register No : SNC20CE002	Attendance : 96.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by faculty	
ALEN ALEX Register No : SNC20CE003	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by faculty	
AMAYA T Register No : SNC20CE004	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by faculty	

ANUVINDA P Register No : SNC20CE006	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
APARNA P Register No : SNC20CE007	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
ARJUN KM Register No : SNC20CE008	Attendance : 75.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
FATHIMATHUL MARJAN KP Register No : SNC20CE009	Attendance : 83.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
FATHIMATH ZUHRA Register No: SNC20CE010	Attendance : 83.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
FIZA FARHEEN Register No : SNC20CE011	Attendance : 75.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	ř.
KEERTHANA SURENDRAN Register No : SNC20CE012	Attendance : 75.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
MOOHAMMED EBRAHIM Register No : SNC20CE013	Attendance : 75.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
RAJATH MANOHARAN Register No : SNC20CE014	Attendance : 96.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
SAJJAD ZAINUDHEEN Register No : SNC20CE015	Attendance : 83.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	

SHAHANA SHERIN Register No : SNC20CE016	Attendance : 83.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
SREELAKSHMI K Register No : SNC20CE017	Attendance : 96.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
SREEVISHNU K Register No : SNC20CE018	Attendance : 96.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
VAISHNAVI N K Register No : SNC20CE019	Attendance : 88.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
VYSHNA K Register No : SNC20CE020	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
ANUPRIYA K Register No : LSNC20CE021	Attendance : 92.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	

Dr. LEENA A. V.
PRINCIPAL

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### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

### DEPARTMENT OF CIVIL ENGINEERING

### **COURSE PLAN SCHEDULE**

Name of the faculty	Ms. REVATHI P
Designation	Assistant Professor
Faculty department name	Civil Engineering
Name of the course with course code	CET 308 Comprehensive Course Work
Department to which this course is offered	Civil Engineering
Semester	VI
Academic Year	2022-23

#### 1. COURSE OVERVIEW

The course is designed to ensure that the student have firmly grasped the foundational knowledge in Civil Engineering familiar enough with the technological concepts. It provides an opportunity for the students to demonstrate their knowledge in various Civil Engineering subjects.

#### 2. COURSE OBJECTIVE

1.To practice more with core subjects for cracking Gate, placement test and other competitive examinations

#### 3. PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES

#### I. PROGRAM OUTCOMES

- ENGINEERING KNOWLEDGE
- PROBLEM ANALYSIS
- DESIGN / DEVELOPMENT OF SOLUTION
- CONDUCT INVESTIGATION OF COMPLEX PROBLEMS
- MODERN TOOL USAGE
- THE ENGINEER AND SOCIETY
- ENVIORNMENT AND SUSTAINABILITY
- ETHICS
- INDIVIDUAL AND TEAM WORK
- COMUNICATION
- PROJECT MANAGEMENT AND FINANCE
- LIFE LONG LEARNING

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#### II. PROGRAM SPECIFIC OUTCOME

- III. PSO 1 –Demonstrate in-depth knowledge in the analysis, design, experimental research and construction aspects of civil engineering structures
- IV. PSO 2 Apply the concept of sustainability in Civil Engineering

#### 4. COURSE OUTCOME

- CO 1 Learn to prepare for a competitive examination
- CO 2: Comprehend the questions in Civil Engineering field and answer them with confidence
- CO 3 Communicate effectively with faculty in scholarly environments
- CO 4: Analyze the comprehensive knowledge gained in basic courses in the field of Civil Engineering

#### 5. COURSE MAPPING

	PO	PSO	PSO											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
COI	3	1	1			2							1	1
CO2	3	1				2			3					
CO3	3	1			1	2			3					1
CO4	3	3			1	2								

#### 6. SYLLABUS

CET 201- Mechanics of Solids

CET 203- Fluid Mechanics and Hydraulics

CET 205- Surveying& Geomatics

CET 204- Geotechnical Engineering I

CET 309-Construction Technology and Management

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#### 7. TEACHING PLAN

SL No:	TOPIC	No of Lectures
1	Mechanics of Solids	
1.1	Mock Test on Module 1 and Module 2	1
1.2	Mock Test on Module 3, Module 4 and Module 5	1
2	Fluid Mechanics and Hydraulics	1
2.1	Mock Test on Module 1, Module 2 and Module 3	1
2.2	Mock Test on Module 4 and Module 5	1
3	Surveying& Geomatics	1
3.1	Mock Test on Module 1 and Module 2	1
3.2	Mock Test on Module 3, Module 4 and Module 5	1
3.3	Feedback and Remedial	1
4	Geotechnical Engineering I	1
4.1	Mock Test on Module 1, Module 2 and Module 3	1
4.2	Mock Test on Module 4 and Module 5	1
5	Construction Technology and Management	1
5.1	Mock Test on Module 1, Module 2 and Module 3	1
5.2	Mock Test on Module 4 and Module 5	1
6	Construction Technology and Management	1
6.1	Mock Test on Module 1, Module 2 and Module 3	1
6.2	Mock Test on Module 4 and Module 5	1
6.3	Feedback and Remedial	1

#### 8. Subject History

- ✓ Year of Introduction of the Subject 2022
- ✓ Faculty Handled Just before this time Da. Susan Abraham
- ✓ Pass Percentage during last three years 66.67/
- √ Target Pass Percentage 85
- ✓ The following is the formula for calculating the target percentage of a subject.
- 9. Any other important matter to be brought into consideration:

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Manual Prepared by:

Ms. REVATHI P

ASSISTANT PROFESSOR

DEPARTMENT OF CE

Approved by:

Dr. susan Abraham Associate: Professor Department of ce

Dated signature of faculty member

Card 103.

Dated signature of Module Coordinator

Dated signature of HOD

Dr. LEENA A. V.
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# SREE NARAYANA GURU COLLEGE OF ENGINEERING <u>X</u> TECHNOLOGY

#### **COURSE TEAM MEETING CHECKLIST**

SEMESTER: VI

DATE OF THE MEETING: 4 2 23

VENUE: CE Dept.

TIME: LO 'AM

1. NAME OF THE FACULTY: REMOTHI-P

2. DEPARTMENT: CLUIL ENGINEERING

3. SUBJECT CODE AND NAME: CET 308, COMPRCHENSING COURSE WORK

4. DETAILS REGARDING THE SUBJECT:

WHETHER HANDLING SUBJECT FOR THE FIRST TIME? IF NOT MENTION THE COUNT EXCLUDING THIS TIME	Yes
TARGET PASS PERCENTAGE	
NATURE OF THE SUBJECT	EASY/MODERATE/TOUGH
CPS	COMPLETED / NOT COMPLETED
ATTENDANCE REGISTER	COMPLETED / NOT COMPLETED
ASSESSMENT PLAN	FILED / NOT FILED
ACADEMIC CALENDAR	FILED / NOT FILED
QP & SCHEME OF FIRST ASSIGNMENT	AVAILABLE / NOT AVAILABLE
QP & SCHEME OF SERIES TEST 1	AVAILABLE / NOT AVAILABLE
FEEDBACK OF THE TUTOR REGARDING THE CLASS	-
ACTION PLAN BY THE FACULTY TO ACHEIVE TARGET PASS PERCENTAGE	_
ANY OTHER REMARKS FROM THE FACULTY	-

FACULTY

COURSE CHAIRMAN

Dr. LEENA A.V.
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### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

#### DEPARTMENT OF CIVIL ENGINEERING

#### **CET308-COMPREHENSIVE COURSE WORK**

#### **CUMULATIVE ATTENDENCE**

or No	nna va		ATTENDENCE	ATTENDENCE
SL NO.	REG NO	NAME	(%)	(MARKS)
1	SNC20CE001	АВНІЈІТНА К	95.8	10
2	SNC20CE002	AKSHAYA PV	95.8	10
3	SNC20CE003	ALEN ALEX	91.7	10
4	SNC20CE004	AMAYA T	91.7	10
5	SNC20CE006	ANUVINDA P	91.7	10
6	SNC20CE007	APARNA P	91.7	10
7	SNC20CE008	ARJUN KM	75.0	7
8	SNC20CE009	FATHIMATHUL MARJAN KP	83.3	8
9	SNC20CE010	FATHIMATH ZUHRA	83.3	8
10	SNC20CE011	FIZA FARHEEN	75.0	7
11	SNC20CE012	KEERTHANA SURENDRAN	75.0	7
12	SNC20CE013	MOOHAMMED EBRAHIM	75.0	8
13	SNC20CE014	RAJATH MANOHARAN	95.8	10
13	SNC20CE015	SAJJAD ZAINUDHEEN	83.3	8
15	SNC20CE016	SHAHANA SHERIN	83.3	8
16	SNC20CE017	SREELAKSHMI K	95.8	10
17	SNC20CE018	SREEVISHNU K	95.8	10
18	SNC20CE019	VAISHNAVI N K	87.5	10
19	SNC20CE020	VYSHNA K	91.7	10
20	LSNC20CE021	ANUPRIYA K	91.7	10

[HOD, CE]

DIVLEEN A. V.

PRINTED FATA

EDITOR

RATE

KANNER

CST308	COMPREHENSIVE	CATEGORY		T	P	CREDIT	YEAR OF INTRODUCTION
	COURSE WORK	PCC	1	0	0	1	2019

**Preamble:** The objective of this Course work is to ensure the comprehensive knowledge of each student in the most fundamental core courses in the curriculum. Five core courses credited from semesters 3, 4 and 5 are chosen for the detailed study in this course work. This course helps the learner to become competent in cracking GATE, placement tests and other competitive examinations

#### Prerequisite:

- 1. Data Structures
- 2. Operating Systems
- 3. Computer Organization And Architecture
- 4. Database Management Systems
- 5. Formal Languages And Automata Theory

Course Outcomes: After the completion of the course the student will be able to

Comprehend the concepts and applications of data structures (Cognitive Knowledge Level: Understand)
Comprehend the concepts, functions and algorithms in Operating System (Cognitive Knowledge Level: Understand))
Comprehend the organization and architecture of computer systems (Cognitive Knowledge Level: Understand)
Comprehend the fundamental principles of database design and manipulation (Cognitive Knowledge Level: <b>Understand</b> )
Comprehend the concepts in formal languages and automata theory Cognitive Knowledge Level: Understand)

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#### Mapping of course outcomes with program outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	0	0						-		797		0
CO2	0	0								AT 8.2.33	174	0
СОЗ	0	0			1 10	3.11		u la		ižite	1 1 1 11	0
CO4	0	0										0
CO5	0	0										0

#### **Assessment Pattern**

Bloom's Category	End Semester Examination
Remember	10
Understand	20
Apply	20
Analyse	
Evaluate	
Create	- 4

#### Mark distribution

Total Marks	CIE	ESE	ESE Duration
50	0	50	1 hour

End Semester Examination Pattern: Objective Questions with multiple choice, a maximum of four options. Question paper includes fifty questions of one mark each, distributed equally from all the five identified courses.

4.3	Feedback and Remedial class	1
5	FORMAL LANGUAGES AND AUTOMATA THEORY	P A
5.1	Mock Test on Module 1, Module 2 and Module 3	1 hour
5.2	Mock Test on Module 4 and Module 5	1 hour
5.3	Feedback and Remedial class	1 hour

Model Question	1 Paper	
QP CODE:		
Reg No:		
Name:		PAGES:
	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY	

### APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY SIXTH SEMESTER B.TECH DEGREE EXAMINATION, MONTH & YEAR

Course Code: CST308

Course Name: Comprehensive Course Work

Max. Marks: 50 Duration: 1 Hour Objective type questions with multiple choices. Mark one correct answer for each question.

Objective type questions with multiple choices. Mark one correct answer for each question.

Each Question Carries 1 Mark

١.	Consider the	Consider the following sequence of operations on an empty stack.								
	push(22); pus	sh(43); pop(); push(55);	; push(12); s=pop();							
	Consider the	following sequence of	operations on an em	pty queue.						
	enqueue(32);	enqueue(27); dequeue(	); enqueue(38); enq	ueue(12); q=deq	ueue();					
	The value of	s+q is								
	(A) 44	(B) 54	(C) 39	(D) 70						
2.	A B-tree of or	rder (degree)5 and of he	eight 3 will have a r	minimum of	keys.					
	A. 624									
	B. 249									
	C. 124									

D. 250

9.	Which tree traversa the keys? A. Pre-order	l performed on a bi	inary search	tree, results	in ascending or	der listing of
	B. In-order					
	C. Post-order					
	D. Level-order					
	D. Level-order					
10	You are given poin operations are deperations are deperations are deperations. (A) Delete the first (B) Insert a new elem (C) Add a new elem (D) Delete the last of	ndent on the length element ement as a first element at the end of the	of the linked		ed list, which o	f the following
11	Suppose a disk has cylinder 58, and the 84, 226, 70, 86. If access, the request requests.	ere is a queue of d Shortest-Seek Tin	isk access re ne First (SS)	equests for c FF) is being	ylinder 66, 349 used for sched	, 201, 110, 38, duling the disk
	(A) 1	(B) 2	(C)3		(D)4	
12	If frame size is 4k bytes of pl (A) 2^12	XB then a paging hysical memory. (B) 2^16		page table 2^18	(D) 2^28	es can address
13	Calculate the intern (A) 3KB	al fragmentation if (B) 4KB	page size is (C) 1K	•		BKB.
14	Which of the follow (A) FCFS		icy is likely B) Round Ro	_	nteractiveness?	
	(C) Shortest Proces		D) Priority E		ıling	
	(-)		-,,-			
15	Consider the follow Semaphore					
	Void A()	,	Void I	3()		
	{		{	3()		
	While (1)		ι	While (1)		
				2 0 0		
	{ P(V):			-{ D(V):		
	P(X);			P(Y);		
	Print'1';			P(X);		
	V(Y);			Print'0';		

(A) I	only (B)	I and II only	y (C) I ar	nd III only	(D) I, II	and III		
addre	•					of the process		
(A) 3		31 (	(C) 32	(D) None				
(with stage	delay 900 pi s with respe- ine is	coseconds) i ctive delays _ percent.	is replaced v	vith a function	nally equiv	icoseconds. The alent design in a roughput income	volving two	
6 bits	24. Consider a direct mapped cache of size 256 Kilo words with block size 512 words. There are 6 bits in the tag. The number of bits in block (index) and word (offset) fields of physical							
(A) b (B) b (C) b	address are is:  (A) block (index) field = 6 bits, word (offset) field = 9 bits  (B) block (index) field = 7 bits, word (offset) field = 8 bits  (C) block (index) field = 9 bits, word (offset) field = 9 bits  (D) block (index) field = 8 bits, word (offset) field = 8 bits							
instru addre addre	25. The memory unit of a computer has 1 Giga words of 64 bits each. The computer has instruction format, with 4 fields: an opcode field; a mode field to specify one of 12 addressing modes; a register address field to specify one of 48 registers; and a memory address field. If an instruction is 64 bits long, how large is the opcode field?  (A) 34 bits  (B) 24 bits  (C) 20 bits  (D) 14 bits							
	26. A computer has 64-bit instructions and 28-bit address. Suppose there are 252 two-address instructions. How many 1-address instructions can be formulated?							
(A) 2	^24	(B) 2^26	5	(C) 2^28		(D) 2 <sup>30</sup>		
pipeli	27. Determine the number of clock cycles required to process 200 tasks in a six-segment pipeline. (Assume there were no stalls), each segment takes 1 cycle.							
(A) I	200 cycles	(B) 20	06 cycles	(C) 207	cycles	(D) 205 c	ycles	
P.DM Q. Pr	n the following A ocessor status isy chaining	=		ority Interrup Transfer U	t			

Which of the characteristics above are used in the design of a RISC processor?

35. Consider the	following relati	on instance, w	here "A" is pri	mary Key.	
A1 A	2 A3 A4				
1.07	1 Null				
5 2	2 5 1				
9 5	5 13 5				
13 1	3 9 15				
Which one of	the following of	- Artesta (n. 15)		rs to the same relat	ion?
(A) A2	(B) A3	(C) A4	(D) ALL		
following fun	ABC) is having ctional dependent (B) AC → B	encies holds w	ell?	(D) BC $\rightarrow$ A	nich of the
				functional depend	lencies A→BC,
		•		relation satisfies?	-1 -11
(A) BCNF	(B) 3	NF	(C) 2 NF	(D) 1 NF	la constant
20 F 4 '	1 11 6 6	1 0		1 1 1	
38. For the given			•		
				); W3(Y); W2(Y)	
(A) T1 $\rightarrow$ T2 $-$ (C) T3 $\rightarrow$ T1 $-$		(B) T2->T1->	ict serializable	E 111 1	
(C) 13→11−	<b>→</b> 12	(D) Not com	net serianzable		
39. Specialization	ı ic	nrocess			
(A) top-de			ottom up		
	(A) and (B)		one of these		
(0) 20 (	(1) 1111 (2)	(2)			
40. If D1, D2,, I subset of	Dn are domains	in a relationa	l model, then th	ne relation is a tabl	e, which is a
	02+ +Dn	(B) D	1×D2× ×Dr	1	
	02U UDn	. ,	1–D2– –Dn		
(-)		(-)-			
41. Which of the S -> aX	following string	gs is in the lan	guage defined l	by the grammar:	
$X \rightarrow aX bX b$					
(A) aaaba	(B) bal	oab	(C) aaaaa	(D) abab	b
	y this regular ex		:	e $\Sigma = (x,y)$ . If L the minimum num	
(A) 2	(B) 3		(C) 4	(D) 5	

Turing machine.

(D) All the above

50. Regular expression a+b denotes the set:

(A) {a}

(B) {Epsilon, a, b}

 $(C) \{a, b\}$ 

(D) None of these

QNo	Ans. Key								
1	(C)	11	(C)	21	(C)	31	(C)	41	(D)
2	(B)	12	(D)	22	(A)	32	(D)	42	(C)
3	(A)	13	(C)	23	(D)	33	(A)	43	(B)
4	(C)	14	(B)	24	(C)	34	(B)	44	(B)
5	(D)	15	(D)	25	(B)	35	(B)	45	(D)
6	(D)	16	(B)	26	(D)	36	(D)	46	(A)
7	(A)	17	(B)	27	(D)	37	(A)	47	(C)
8	(D)	18	(C)	28	(B)	38	(D)	48	(D)
9	(B)	19	(A)	29	(C)	39	(A)	49	(B)
10	(D)	20	(B)	30	(D)	40	(B)	50	(C)

Jour Jour S. Z.



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING COURSE PLAN SCHEDULE

Name of the faculty	Veena KK
Designation	Assistant Professor
Faculty department name	Computer Science and Engineering
Name of the course with course code	CST 308 Comprehensive Course Work
Department to which this course is offered	Computer Science and Engineering
Semester	VI
Academic Year	2022-23

#### 1. COURSE OVERVIEW

The objective of this Course work is to ensure the comprehensive knowledge of each student in the most fundamental core courses in the curriculum. Six core courses credited from Semesters 3, 4 and 5 are chosen for the detailed study in this course work. This course helps the learner to become competent in cracking GATE, placement tests and other competitive examinations.

#### 2. COURSE OBJECTIVE

To practice more with core subjects for cracking Gate, placement test and other competitive examinations

#### 3. PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES

#### I. PROGRAM OUTCOMES

- ENGINEERING KNOWLEDGE
- PROBLEM ANALYSIS
- DESIGN / DEVELOPMENT OF SOLUTION
- CONDUCT INVESTIGATION OF COMPLEX PROBLEMS
- MODERN TOOL USAGE
- THE ENGINEER AND SOCIETY
- ENVIORNMENT AND SUSTAINABILITY
- ETHICS
- INDIVIDUAL AND TEAM WORK

- COMUNICATION
- PROJECT MANAGEMENT AND FINANCE
- LIFE LONG LEARNING

#### II. PROGRAM SPECIFIC OUTCOME

- PSO 1 The ability to identify, analyze and design solutions for complex engineering problems in multidisciplinary areas by understanding the core principles and concepts of computer science and thereby engage in national grand challenges.
- PSO 2 The ability to acquire programming efficiency by designing algorithms and applying standard practices in software project development to deliver quality software products meeting the demands of the industry.

#### 4. COURSE OUTCOME

- CO 1 Comprehend the concepts of discrete mathematical structures (Cognitive Knowledge Level: Understand)
- CO 2 : Comprehend the concepts and applications of data structures (Cognitive Knowledge Level: Understand)
- CO 3: Comprehend the concepts, functions and algorithms in Operating System (Cognitive Knowledge Level: Understand))
- **CO 4**: Comprehend the organization and architecture of computer systems (Cognitive Knowledge Level: Understand).
- **CO 5**: Comprehend the concepts in formal languages and automata theory Cognitive Knowledge Level: Understand).

#### 5. COURSE MAPPING

	PO	PO	PSO	PSO										
	1	2	3	4	5	6	7	8	9	10	-11	12	1	2
CO1	Н	Н	Н		M			M		Н		Н		M
CO2	Н	М	M		M			M		L		Н		
CO3	Н	Н	M	L	M			M		M		Н		
CO4	Н	M	M	L	M			M		M		Н		
CO5	Н	M	L		M			M		M		M		
CO6	Н	M	M	L	M	M		M	L	L	M	M		

Hi High M: Medium L'LOW

#### 6. SYLLABUS

Full Syllabus of all six selected Courses.

- 1. Data Structures
- 2. Operating Systems
- 3. Computer Organization And Architecture
- 4. Database Management Systems
- 5. Formal Languages And Automata Theory

#### 7. TEACHING PLAN

SL No:	TOPIC	No of Lectur es	Planned Date	Actual Date
1	DATA STRUCTURES	1		
1.1	Mock Test on Module 1, Module 2 and Module 3	1	14-02-2023	25-2-23
1.2	Mock Test on Module 4 and Module 5	1	21-02-2023	14-3-23
2	OPERATING SYSTEMS	1		
2.1	Mock Test on Module 1 and Module 2	1	28-02-2023	26.3.23
2.2	Mock Test on Module 3, Module 4 and Module 5	1	14-03-2023	24-3.23
2.3	Feedback and Remedial	1	21-03-2023	4-4-23
3	COMPUTER ORGANIZATION AND ARCHITECTURE	1		
3.1	Mock Test on Module 1, Module 2 and Module 3	1	28-03-2023	4-4-23
3.2	Mock Test on Module 4 and Module 5	1	04-04-2023	11-4.23
4	DATABASE MANAGEMENT SYSTEMS	1		
4.1	Mock Test on Module 1, Module 2 and Module 3	1	04-04-2023	11-4.23
4.2	Mock Test on Module 4 and Module 5	1	04-04-2023	25-4.23
5	FORMAL LANGUAGES AND AUTOMATA THEORY	1		
5.1	Mock Test on Module 1, Module 2 and Module 3	1	11-04-2023	25-4-23
5.2	Mock Test on Module 4 and Module 5	1	18-04-2023	25-4-23
5.3	Feedback and Remedial	1	25-04-2023	25-4-23
				1

- 8. Subject History
- ✓ Year Of Introduction of the lab 2019
- ✓ Faculty Handled Just before this time Ms. Thulasibai.A
- ✓ Pass Percentage during last three years –
- ✓ Target Pass Percentage 85
- 9. Any other important matter to be brought into consideration:

Manual Prepared by:

#### VEENA KK

#### ASSISTANT PROFESSOR

#### DEPARTMENT OF CSE

Approved by: THULBSIBOI- 9.

ASSISTANT PROFESSOR.

CSE.

Dated signature of faculty member

Veena. KK June

Dated signature of Module Coordinator

Thulasi. Chely

Sunder V Sandalla Dritte de Joseph Miller Seren de Joseph Miller Ser

Dated signature of HOD



# SREE NARAYANA GURU COLLEGE OF ENGINEERING . & TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE

### CST 308 COMPREHENSIVE COURSE WORK

#### MOCK TEST 1

Topics: Data Structure, Database Management System, Operating system

Time: 30 minutes Marks: 30 marks						
Name: Register No:						
1) is not a component of data structure?						
a)Operations b)Storage structures c)Algorithms d)None of above						
2) The time complexity of heap sort is?						
a) $O(n)$ b) $O(\log n)$ c) $O(n2)$ d) $O(n \log n)$						
3) The operation of processing each element in the list is known as?						
a)Sorting b)Merging c)Inserting d)Traversal						
4) The number of edges in a complete graph of n vertices is?						
a) $n(n+1)/2$ b) $n(n-1)/2$ c) $n2/2$ d) $n/2$						
5) The complexity of sorting algorithm measures the as a function of the number n of items to be sorted						
a) Average time b) Running time c)Average-case complexity d)case-complexity						
6) What is the maximum number of swaps that can be performed in selection sort algorithm?						
a)n-1 b)n c)1 d)n-2						
7)In a binary tree a sequence of consecutive edges is called?						
a)Rotate b)Connecting lines c)Two-way d)Path						
8) The terminal node in a binary tree is called?						
a)Root b)Leaf c)Child d)Branch						
9) Linked representation of binary tree needs parallel array?						
a)4 b)2 c)3 d)5						
10) The inorder traversal of tree will yield a sorted listing of elements of tree in?						
a)Primary tree b)Binary search tree c)Merging d)AVL trees						
11) Select the definition of the correct key which is used to represent between 2 tables?						
a) Candidate key b)Foreign key c)Primary key d)Super key						
12) Select the correct advantages of view?						
a)Derived columns b)Data security c)Hiding of complex queries d)All of the above						
13) Which of the following is the oldest database model?						
a)Hierarchical b)Object oriented c)Deductive d)Relational						
14) Which type of data can be stored in the database? a) Image oriented data b) Text, files containing data c) Data in the form of audio or video d) d) All of the above.						

a) Data and the DBMS b) Application and SQL  and of an enterprise-class system. c) Database application and the database d) The user and the software
<ul><li>17) Which of the following is the best way to represent the attributes in a large db?</li><li>a) Dot representation b) Concatenation c) Relational d) All of the mentioned</li></ul>
command is used in SQL to issue multiple CREATE TABLE, CREATE VIEW and GRANT statements in a single transaction.  a) CREATE CLUSTER b) CREATE PACKAGE c) CREATE SCHEMA d) All of the mentioned
19) Which of the following is the subset of SQL commands used to manipulate Oracle Structures, including tables? a) Data Described Language b) Data Retrieval Language c) Data Manipulation Language d)Data Definition Language
20) After groups have been established, SQL applies predicates in the clause, allowing aggregate functions to be used.  a) Where b) Having c) Group by d) With
21) What is an operating system? a) interface between the hardware and application programs b) collection of programs that manages hardware resources c) system service provider to the application programs d) all of the mentioned
<ul><li>22) To access the services of the operating system, the interface is provided by the?</li><li>a) Library</li><li>b) System calls</li><li>c) Assembly instructions</li><li>d) API</li></ul>
23) When a process is in a "Blocked" state waiting for some I/O service. When the service is completed, it goes to the a) Terminated state b) Suspended state c) Running state d) Ready state
24) The FCFS algorithm is particularly troublesome for a) operating systems
25) A deadlock avoidance algorithm dynamically examines the to ensure that a circular wait condition can never exist. a) operating system c) system storage state b) resources d) resource allocation state
26 Network operating system runs on a) every system in the network b) server c) both server and every system in the network d) none of the mentioned
27)The program initializes all aspects of the system, from CPU registers to device controllers and the contents of main memory, and then starts the operating system.  a) bootstrap
28) For real time operating systems, interrupt latency should be a) zero c) maximum b) minimal d) dependent on the scheduling
29) The presents a uniform device-access interface to the I/O subsystem, much as system calls provide a standard interface between the application and the operating system.  a) Device drivers c) Devices b) I/O systems d) Buses
30) In Unix, which system call creates the new process? a) create c) new b) fork d) none of the mentioned

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# SREE NARAYANA GURU COLLEGE OFENGINEERING & TECHNOLOGY

Model Exam	2	Academic Year/Semester	2022-23/ S6
Subject name withcode	CST-308 COMPREHENSIVE COURSE WORK	Branch	CSE
Date of Exam	11/04/2023	Duration	30 min
Starting time	10:30 AM	Max. Marks	30

- 1. Given the language l={ab,aa,baa}, which of the following strings are in L\*
- 1) abaabaaabaa
- 2) aaaabaaaa
- 3) baaaaabaaaab
- 4) baaaabaa
- A)1,2 and 3
- B)2,3 and 4
- C)1,2 and 4
- D)1,3 and 4
- 2. Which one of the following language over the alphabet  $\{0,1\}$  is described by the regular expression: (0+1)\*0(0+1)\*0(0+1)\*?
  - A The set of all strings containing the substring 00
  - B The set of all string containing at most two 0's
  - C The set of all string containing at least two 0's
  - D The set of all strings that begin and end with either 0 or 1
- 3. Let S and T be language over  $\{a,b\}$  represented by the regular expression  $(a+b^*)^*$  and  $(a+b)^*$  respectively. which of the following is true
  - a) ScT (S is subset of T)
  - b) TcS(T is subset of S)
- c) S=T
- d)  $SnT=\emptyset$
- 4. Let L={w ∈ (0+1)\*|w has even number of 1s, ie L is the set of all bit string with even number of 1's.. which one of the regular expression below represents L?
- A- (0\*10\*1)\*
- B-0\*(10\*10\*)\*
- C-0\*(10\*1\*)\*0\*
- D-0\*1(10\*1)\*10\*
- 5 Which of the following denotes Chomskian hiearchy?
- (A) REG? CFL? CSL? type0
- (B) CFL? REG? type0? CSL
- (C) CSL? type0? REG? CFL
- (D) CSL? CFL? REG? type0

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6 Consider a language I for which there exists a Turing machine TM. T. that accents every word in I. and

(D) Recursively enumerable	
7. A language is represented by a regular expression (a)*(a + ba). Which of the followed belong to the regular set represented by the above expression?  (A) aaa	owing string does not
(B) aba (C) ababa	
(D) aa	
8. Regular expression are a) Type 0 language b) Type 1 language c) Type 2 language	uage d) Type 3 language
9. How many strings of length less than 4 contains the language described by the re $(x+y)*y(a+ab)*?$	gular expression
a) 7 b) 10 c) 12 d) 11	
10. If $\Sigma = \{0,1\}$ , then $\Phi^*$ will result to:	
A) $\epsilon$ B) $\Phi$ C) $\sum$ D) None of the mentioned	
11. Which among the following is equivalent to the given regular expression?01*+1	
1) (01)*+1	
2) 0((1)*+1) 3) (0(1)*)+1	
4) ((0*1)1*)*	
12. Which of the following regular expression corresponds to the language of all str b} that contains exactly two a's	ings over the alphabet (a,
(i) aa (ii) ab*a (iii) b* ab* a	
(a) (i) and (ii) only	
(b) (ii) and (iii) only (c) (i) and (ii) only	
(d) None of these	- 3 r = 1 H
<ul> <li>13. Which of the following regular expression corresponds to the language of all st</li> <li>b) that do not end with ab?</li> <li>(a) (a + b)* (aa + ba + bb)</li> </ul>	rings over the alphabet (a,
(b) $(a + b)^* (aa + ba + bb) + a + b + \in$	
(c) b* ab* a (d) b* aa b*	
14. What is regular expression corresponding to the language of strings of even leng	oths over the alphabet of

15. How many minimum number of states are required in the DFA (over the alphabet (a, b)) accepting all the

strings with the number of a's divisible by 4 and number of b's divisible by 5?

(a, b)?

(a) (aa + bb + ba + ab)\*

(c) (ab + bb + ba)\*

(b) (aa + bb)

(d) a\*b\*a\*b\*

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Name:	Roll No:



# SREE NARAYANA GURU COLLEGE OFENGINEERING & TECHNOLOGY

Model Exam	3	Academic Year/Semester	2022-23/ S6
Subject name withcode	CST-308 COMPREHENSIVE COURSE WORK	Branch	CSE
Date of Exam	25/04/2023	Duration	30 min
Starting time	1:00pm	Max. Marks	30

- 1) Cache memory works on the principle of
- A. Locality of data
- B. Locality of memory
- C. Locality of reference
- D. Locality of reference & memory
- 2) The circuit converting binary data in to decimal is
- A. Encoder
- B. Multiplexer
- C. Decoder
- D. Code converter
- 3) The address in the main memory is known as -
- A.Logical address
- B. Physical address
- C.Memory address
- D.None of the above
- 4) Which of the following is a combinational logic circuit which sends data from a single source to two or more separate destinations?
- A.Multiplexer
- **B.Demultiplexer**
- C.Encoder
- D.Decoder
- 5) Which of the following is a group of bits that tells the computer to perform a particular operation?
- a. Accumulator
- b. Register
- c. Instruction code
- d. None of the above
- 6) The status bit is also called as-
- a. Unsigned bit
- b. Signed bit
- c. Flag bit
- d. None of the above

- 7) Which of the following topology is used in Ethernet?
  a. Ring topology
  b. Bus topology
  c. Mesh topology
  d. Star topology
  - 8) Who developed the basic architecture of computer?
  - A.Blaise Pascal
  - **B.Charles Babbage**
  - C.John Von Neumann
  - D.None of the above
  - 9) Which of the following is not considered as a peripheral device?
  - A.CPU
  - B.Keyboard
  - C.Monitor
  - D.All of the above
  - 10) With the reference to computer memory, which of the following is not a address binding type?
  - A.Load time
- B.Memory time
- C.Compile time
- D.Execution time
- 11) The addressing mode used in an instruction of the form ADD XY, is
- A.Absolute
- B.Indirect
- C.Index
- D.None of these
- 12) Which of the following is not a weighted code?
- A.Decimal Number system
- B.Excess 3-cod
- C.Binary number System
- D.None of these
- 13) Content of the program counter is added to the address part of the instruction in order to obtain the effective address is called.
- A. relative address mode
- B. index addressing mode
- C.register mode
- D.implied mode
- 14) The operation executed on data stored in registers is called
- A.Macro-operation
- B.Micro-operation
- C.Bit-operation
- D.Byte-operation
- 15) The BSA instruction is
- (A) Branch and store accumulator
- (B) Branch and save return address
- (C) Branch and shift address
- (D) Branch and show accumulator

### SREE NARAYANA GURU COLLEGE OF ENGINEERING . & TECHNOLOGY

#### DEPARTMENT OF COMPUTER SCIENCE

#### **CST 308 COMPREHENSIVE COURSE WORK**

#### MOCK TEST 1

Topics: Data Structure, Database management system, Operating system

Time: 30 minutes	Marks: 30 marks
Name: Hamna Sherin	Register No: SNC20CS02
1) is not a component of data structure?	
a)Operations b)Storage structures c)Algorithms d)None of a	bove
2)The time complexity of heap sort is?	(17)
(n) b)O(log n) c)O(n2) d)O(n log n)	
3)The operation of processing each element in the list is known as?	20
a)Sorting b)Merging c)Inserting d)Traversal	30 /
4)The number of edges in a complete graph of n vertices is?	
$a \ln(n+1)/2$ $b \ln(n-1)/2$ $c) n 2/2$ $d) n/2$	
5)The complexity of sorting algorithm measures the as a function of the	
a)Average time b)Running time c)Average-case complexity d)case-co	
6)What is the maximum number of swaps that can be performed in selection	sort algorithm?
7)In a binary tree a sequence of consecutive edges is called?	
a)Rotate b)Connecting lines c)Two-way d)Path	
8)The terminal node in a binary tree is called?	
a)Root b)Leaf c)Child d)Branch	
9)Linked representation of binary tree needs parallel array?	
b)2 c)3 d)5	
10) The inorder traversal of tree will yield a sorted listing of elements of tree	in?
a)Primary tree b)Binary search tree c)Merging d)AVL trees	
11)Select the definition of the correct key which is used to represent between	en 2 tables?
a)Candidate key b)Foreign key c)Primary key d)Super key	
12)Select the correct advantages of view?	
a)Derived columns b)Data security c)Hiding of complex queries d)All	of the above
13) Which of the following is the oldest database model?	
alHierarchical b)Object oriented c)Deductive d)Relational	
14) Which type of data can be stored in the database?	
a) Image oriented data c) Data in the form of audio or video	
b) Text, files containing data dd All of the above.	1
15) The values appearing in given attributes of any tuple in the referencing re	
specified attributes of at least one tuple in the referenced relation, according A Referential b) Primary c)Referencing d) Specific	to integrity constraint
A Referential b) Primary c) Referencing d) Specific  16) The DBMS acts as an interface between and of an enterprise-class.	acc cuctom
a) Data and the DBMS c) Database application and the dat	
X b) Application and SQL d The user and the software	addust.
17) Which of the following is the best way to represent the attributes in a lar	ge db?
X a) Dot representation b) Concatenation c) Relational d) All of the ment	

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	command is used in sign to issue multiple cheare rable, chear	e view and araivi statements in a
X	single transaction.	
	CREATE CLUSTER b) CREATE PACKAGE c) CREATE SCHEMA d) All o	f the mentioned
	19) Which of the following is the subset of SQL commands used to manipu	late Oracle Structures, including
1	, tables?	
X	a) Data Described Language CHBata Manipulation Language	
/	b) Data Retrieval Language d)Data Definition Language	
	20) After groups have been established, SQL applies predicates in the	clause allowing aggregate
1	functions to be used.	cladse, anowing aggregate
X	a) Where b) flaving c) Group by d) With	
	21)What is an operating system?	
	a) interface between the hardware and application programs	
	b) collection of programs that manages hardware resources	
/	c) system service provider to the application programs	
	Hall of the mentioned	THE HAMMA here
1		11-4-2
	22) To access the services of the operating system, the interface is provide	a by the?
	a) Library b) System calls c) Assembly instructions d) API	
	23) When a process is in a "Blocked" state waiting for some I/O service. W	hen the service is completed, it goes
X	to the	
-	Terminated state b) Suspended state c) Running state d)	Ready state
	24) The FCFS algorithm is particularly troublesome for	
1	( a) operating systems c) time sharing systems	
	b) multiprocessor systems — multiprogramming systems	
	25) A deadlock avoidance algorithm dynamically examines the to ens	ure that a circular wait condition can
	never exist.	540
	a) operating system c) system storage state	
	b) resources dresource allocation state	
	26 Network operating system runs on	
V	a) every system in the network both server and every system in th	e network
1	b) server d) none of the mentioned	
	27)The program initializes all aspects of the system, from CPU reg	isters to device controllers and the
	, contents of main memory, and then starts the operating system.	
X	a) bootstrap c) bootloader	
/	b) main d rom	
	28) For real time operating systems, interrupt latency should be	
	a) zero c) maximum	
	minimal d) dependent on the scheduling	
~	29) The presents a uniform device-access interface to the I/O subsystem	, much as system calls provide a
	standard interface between the application and the operating system.	
1	a) Device drivers c) Devices	
	b) I/O systems d) Buses	
	30) In Unix, which system call creates the new process?	
	a) create c) new	
/	b) none of the mentioned	
~	of none of the mentioned	59.

## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

### DEPARTMENT OF COMPUTER SCIENCE

#### **CST 308 COMPREHENSIVE COURSE WORK**

#### **MOCK TEST 1**

Topics: Data Structure, Database management system, Operating system

Time: 30 minutes	Marks: 30 marks	
Name: PARTHIP. K. ANISH	Register No: SNC20CS035	
a)Operations b)Storage structures c)Algorithms  2)The time complexity of heap sort is?  a)O(n) b)O(log n) c)O(n2) d)O  3)The operation of processing each element in the list is known  a)Sorting b)Merging c)Inserting d)Traversal  4)The number of edges in a complete graph of n vertices is?  a)n(n+1)/2 b)n(n-1)/2 c)n2/2 d)n/2  5)The complexity of sorting algorithm measures the as a a)Average time b)Running time c)Average-case complexity  6)What is the maximum number of swaps that can be performed a)n-1 b)n c)1 d)n-2	function of the number n of items to be sorted?  ty d)case-complexity	
7)In a binary tree a sequence of consecutive edges is called?  a)Rotate b)Connecting lines c)Two-way  8)The terminal node in a binary tree is called?  a)Root b)Leaf. c)Child d)Brand  9)Linked representation of binary tree needs parallel array?  (a)4 lb)2 c)3. d)5  10)The inorder traversal of tree will yield a sorted listing of elent  a)Primary tree b)Binary search tree c)Merging d)AV  11)Select the definition of the correct key which is used to represent a)Candidate key b)Foreign key c)Primary key d)Su  12)Select the correct advantages of view?  a)Derived columns b)Data security c)Hiding of complex queries.	nents of tree in? /L trees esent between 2 tables? eper key	
16) The DBMS acts as an interface between of an	referencing relation must likewise occur in on, according to integrity constraint  Specific enterprise-class system. on and the database oftware	

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	command is used in sign to issue multiple cheare hable, cheare view and grant statements in a
1	single transaction.
	a) CREATE CLUSTER b) CREATE PACKAGE CREATE SCHEMA d) All of the mentioned
	19) Which of the following is the subset of SQL commands used to manipulate Oracle Structures, including
	tables?
1	a) Data Described Language Chata Manipulation Language
	b) Data Retrieval Language d)Data Definition Language:
	20) After groups have been established, SQL applies predicates in the clause, allowing aggregate
V	functions to be used
-	a) Where b) Having c) Group by d) With
	21)What is an operating system?
	interface between the hardware and application programs
V	b) collection of programs that manages hardware resources
	c) system service provider to the application programs
	d all of the mentioned
	22) To access the services of the operating system, the interface is provided by the?
X	a) Library b) System calls - c) Assembly instructions d) API
	23) When a process is in a "Blocked" state waiting for some I/O service. When the service is completed, it goes
	to the
	a) Terminated state b) Suspended state c) Running state d) Ready state
	24) The FCFS algorithm is particularly troublesome for
X	a) operating systems c) time sharing systems.
	b) multiprocessor systems d) multiprogramming systems
	25) A deadlock avoidance algorithm dynamically examines the to ensure that a circular wait condition can
1	never exist.
1	a) operating system c) system storage state
	b) resources d) resource allocation state-
	26 Network operating system runs on
./	a) every system in the network c) both server and every system in the network
X	b) server d) none of the mentioned
	27)The program initializes all aspects of the system, from CPU registers to device controllers and the
	contents of main memory, and then starts the operating system.
-	a) bootstrap c) bootloader
	b) main d) rom
	28) For real time operating systems, interrupt latency should be
/	a) zera c) maximum
	b) minimal d) dependent on the scheduling
	29) The presents a uniform device-access interface to the I/O subsystem, much as system calls provide a
	standard interface between the application and the operating system.
/	Al Device drivers c) Devices
	, b) I/O systems d) Buses
	30) In Unix, which system call creates the new process?
,	a) create chew
1	b) fork d) none of the mentioned
2.5	

Hima Murali K

### SREE NARAYANA GURU COLLEGE OF ENGINEERING & SNCQOCSOQS

### DEPARTMENT OF COMPUTER SCIENCE

#### CST 308 COMPREHENSIVE COURSE WORK

#### **MOCK TEST 1**

Topics: Data Structure, Database management system, Operating system

	Time: 30 minutes		Marks: 30 marks
	Name:		Register No:
レナンシャ	is not a component of data structures a)Operations b)Storage structures 2)The time complexity of heap sort is? a)O(n) b)O(log n) c)O( 3)The operation of processing each element a)Sorting b)Merging c)Inserting 4)The number of edges in a complete graph of a)n(n+1)/2 b)n(n-1)/2 c)n2/2 5)The complexity of sorting algorithm measure a)Average time b)Running time c)Aver 6)What is the maximum number of swaps the	d)None of about the list is known as?  d)Traversal of n vertices is?  d)n/2  res the as a function of the rage-case complexity d)case-com	number n of items to be sorted?
X	a)n-1 b)n c)1 d)n-2/		
	11)Select the definition of the correct key what a)Candidate key b)Foreign key c)F 12)Select the correct advantages of view? a)Derived columns b)Data security c)H 13)Which of the following is the oldest database a)Hierarchical b)Object oriented c)Dedutation of the definition of the database because the collection of the database and the collection of the correct key what and the collection of the correct key what and the correct advantages of view?	c)Two-way d)Path  d d)Branch  parallel array?  orted listing of elements of tree in Merging d)AVL trees orich is used to represent between Primary key d)Super key  iding of complex queries d)All of oase model?  uctive d)Relational	2 tables?
7	b) Text, files containing data d) d  15) The values appearing in given attributes of specified attributes of at least one tuple in the a) Referential b) Primary c)Ref  16) The DBMS acts as an interface between a) Data and the DBMS c) b) Application and SQL d)  17) Which of the following is the best way to	All of the above.  of any tuple in the referencing relation, according to the referenced relation, according to the referenced dispersion of an enterprise-clase particular and the data. The user and the software	s system.  de db?

	18) command is used in SQL to issue multiple CREATE TABLE, CREATE VIEW and GRANT statements	in a
	single transaction.	
	a) CREATE CLUSTER b) CREATE PACKAGE c) CREATE SCHEMA d) All of the mentioned	
	19) Which of the following is the subset of SQL commands used to manipulate Oracle Structures, including	g
M	tables?	
X	a) Data Described Language c) Data Manipulation Language	
/	b) Data Retrieval Language d)Data Definition Language	
	20) After groups have been established, SQL applies predicates in the clause, allowing aggre	gate
	functions to be used.	
X	a) Where b) Having c) Group by d) With	
	21)What is an operating system?	
	a) interface between the hardware and application programs	
	6) collection of programs that manages hardware resources	
/	c) system service provider to the application programs	
	d) all of the mentioned	
	22) To access the services of the operating system, the interface is provided by the?	
X	a) Library b) System calls c) Assembly instructions d) API	
-	23) When a process is in a "Blocked" state waiting for some I/O service. When the service is completed, it	gnes
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/	a) Terminated state b) Suspended state c) Running state d) Ready state	
	24) The FCFS algorithm is particularly troublesome for	
V	a) operating systems c) time sharing systems	
^	b) multiprocessor systems d) multiprogramming systems	
	25) A deadlock avoidance algorithm dynamically examines the to ensure that a circular wait condition	n can
	never exist.	ii cuii
	a) operating system c) system storage state	
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	26 Network operating system runs on	
./	a) every system in the network c) both server and every system in the network	
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	27)The program initializes all aspects of the system, from CPU registers to device controllers and	the
	contents of main memory, and then starts the operating system.	
L	a) bootstrap c) bootloader	
	b) main d) rom	
	28) For real time operating systems, interrupt latency should be	
	a) zero / c) maximum	
(	b) minimal d) dependent on the scheduling	
	29) The presents a uniform device-access interface to the I/O subsystem, much as system calls provide	a
	standard interface between the application and the operating system.	
	a) Device drivers c) Devices	
L	b) I/O systems d) Buses	
	30) In Unix, which system call creates the new process?	
	a) create c) new	
/	b) forly d) none of the mentioned	

### SREE NARAYANA GURU COLLEGE OF ENGINEERING CECHNOLOGY

#### DEPARTMENT OF COMPUTER SCIENCE

#### **CST 308 COMPREHENSIVE COURSE WORK**

#### **MOCK TEST 1**

Topics: Data Structure, Database management system, Operating system

Time: 30 minutes		Marks: 30 marks
Name: Muhammed Amson S		Register No: SNC2014032
is not a component of data struc		
a)Operations b)Storage structures		
2)The time complexity of heap sort is?		(14)
a)O(n) b)O(log n)		
3)The operation of processing each eler	a tratación de la company	30
	serting diTraversal	
4)The number of edges in a complete gi		
. ,	c)n2/2 d)n/2	
5)The complexity of sorting algorithm n		
a)Average time A)Running time	엄마 아들이 많은 이 경구에서 그 아들에게 가지 않는데 이 이 사람이 되었다. 그는 아들이 가게 되었다.	
6)What is the maximum number of swa		sort algorithm?
(a)n-1 b)n c)1 d)n		
7)In a binary tree a sequence of consecu		
,	c)Two-way 🗖)Path	
8)The terminal node in a binary tree is		
	c)Child d)Branch	
9)Linked representation of binary tree r	needs parallel array?	
(A) a) 4		
10)The inorder traversal of tree will yie		n?
a)Primary tree b)Binary search tree		24-11-2
11)Select the definition of the correct k	(BENEROLD) 등 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	n 2 tables?
a)Candidate key b)Foreign key		
12)Select the correct advantages of view	N?	£41 - 1
a)Derived columns b)Data security	c)Hiding of complex queries d)All o	or the above
131Which of the following is the oldest		
a)Hierarchical b)Object oriented c		
14) Which type of data can be stored in		
	c) Data in the form of audio or video	
b) Text, files containing data		lating access librarying a serve in
15) The values appearing in given attrib	ites of any tuple in the referencing re	ation must likewise occur in
specified attributes of at least one tuple	c)Referencing d) Specific	to integrity constraint
Referential b) Primary 16)The DBMS acts as an interface between		es sustam
a) Data and the DBMS	Database application and the data	
b) Application and SQL	d) The user and the software	abase
17) Which of the following is the best w	7	a dh?
Va) Dot representation b) Concatenation		
y a pot representation by concatenation	y neiddollar ay All of the mente	A TOTAL ATT.
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	command is used in SQL to issue multiple CREATE TABLE, CREATE VIEW and GRANT statements in a
V	single transaction.
1	CREATE CLUSTER b) CREATE PACKAGE c) CREATE SCHEMA d) All of the mentioned
	19) Which of the following is the subset of SQL commands used to manipulate Oracle Structures, including
í	tables?
1	a) Data Described Language
	b) Data Retrieval Language d)Data Definition Language
	20) After groups have been established, SQL applies predicates in the clause, allowing aggregate
V	functions to be used.
1	a) Where difference (a) Group by d) With
	21)What is an operating system?
	a) interface between the hardware and application programs
X	b) collection of programs that manages hardware resources
	c) system service provider to the application programs
	d) all of the mentioned
	22) To access the sprvices of the operating system, the interface is provided by the?
	a) Library d) System calls c) Assembly instructions d) API
	23) When a process is in a "Blocked" state waiting for some I/O service. When the service is completed, it goes
1	to the
7	
,	Terminated state b) Suspended state c) Running state d) Ready state
2012	24) The FCFS algorithm is particularly troublesome for
X	a) operating systems c) time sharing systems b) multiprocessor systems d) multiprogramming systems
1	
	25) A deadlock avoidance algorithm dynamically examines the to ensure that a circular wait condition can
T.	never exist.
	a) operating system c) system storage state
	b) resources resource allocation state
. 1	26 Network operating system runs on
Y	a) every system in the network both server and every system in the network
1	b) server d) none of the mentioned
	27)The program initializes all aspects of the system, from CPU registers to device controllers and the
/	contents of main memory, and then starts the operating system.
/	a) bootstrap c) bootloader
	b) main d) rom
	28) For real time operating systems, interrupt latency should be
V	a) zero c) maximum
	b) minimal dependent on the scheduling
	29) The presents a uniform device-access interface to the I/O subsystem, much as system calls provide a
V	standard interface between the application and the operating system.
1	a) Device drivers c) Devices
,	b) I/O systems
1000	30) In Unix, which system call creates the new process?
X	(a) create of new
/	b) fork d) none of the mentioned



## SREE NARAYANA GURU COLLEGE OFENGINEERING & TECHNOLOGY

Model Exam	2	Academic Year/Semester	2022-23/ \$6
Subject name withcode	CST-308 COMPREHENSIVE COURSE WORK	Branch	CSE
Date of Exam	11/04/2023	Duration	30 min
Starting time	10:30 AM	Max. Marks	30

- 1. Given the language l={ab,aa,baa}, which of the following strings are in L\*
- 1) abaabaaabaa
- 2) aaaabaaaa
- 3) baaaaabaaaab
- 4) baaaabaa
- A)1.2 and 3
- B)2,3 and 4
- @11,2 and 4
- D)1,3 and 4



- 2. Which one of the following language over the alphabet  $\{0,1\}$  is described by the regular expression: (0+1)\*0(0+1)\*0(0+1)\*?
- A The set of all strings containing the substring 00
- B The set of all string containing at most two 0's
- The set of all string containing at least two 0's
  - D The set of all strings that begin and end with either 0 or 1
- 3. Let S and T be language over  $\{a,b\}$  represented by the regular expression  $(a+b^*)^*$  and  $(a+b)^*$  respectively. which of the following is true
  - a) ScT (S is subset of T)
- b) TcS(T is subset of S)
- c) S=T
- d) SnT=Ø
- 4. Let  $L=\{w \in (0+1)^* | w \text{ has even number of 1s, ie L is the set of all bit string with even number of 1's...}$  which one of the regular expression below represents L?
- A- (0\*10\*1)\*
- B-0\*(10\*10\*)\*
- C-0\*(10\*1\*)\*0\*
- D-0\*1(10\*1)\*10\*
- 5 Which of the following denotes Chomskian hiearchy?
- (A) REG? CFL? CSL? type0
- (B) CFL ? REG ? type0 ? CSL
- (C) CSL? type0? REG? CFL
- (D) CSL? CFL? REG? type0
- 6. Consider a language L for which there exists a Turing machine TM, T, that accepts every word in L and either rejects or loops for every word not in L. The language L is
  - (A) NP hard
- (B) NP complete
- (C) Recursive

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### (D) Recursively enumerable

- 7. A language is represented by a regular expression (a)\*(a + ba). Which of the following string does not belong to the regular set represented by the above expression?
  - (A) aaa
- (B) aba
- (C) ababa
  - (D) aa
  - 8. Regular expression are a) Type 0 language b) Type 1 language c) Type 2 language d) Type 3 language
- 9. How many strings of length less than 4 contains the language described by the regular expression (x+y)\*y(a+ab)\*?
- b) \$0
- c) 12

d) 11

- 10. If  $\Sigma = \{0,1\}$ , then  $\Phi^*$  will result to:

- $C) \Sigma$
- D) None of the mentioned
- 11. Which among the following is equivalent to the given regular expression?01\*+1
- 1)(01)\*+1
- 2) 0((1)\*+1)
- 3)(0(1)\*)+1
- 4) ((0\*1)1\*)\*
- 12. Which of the following regular expression corresponds to the language of all strings over the alphabet (a, b} that contains exactly two a's
- (i) aa
- (ii) ab\*a · (iii) b\* ab\* a
- (a) (i) and (ii) only
- (b) (ii) and (iii) only
- (c) (i) and (ii) only
- (d) None of these
- 13. Which of the following regular expression corresponds to the language of all strings over the alphabet (a, b) that do not end with ab?
  - (a) (a + b)\* (aa + ba + bb)
  - (b)  $(a + b)* (aa + ba + bb) + a + b + \in$
- (c) b\* ab\* a
- (d) b\* aa b\*
- 14. What is regular expression corresponding to the language of strings of even lengths over the alphabet of (a, b)?
- (a) (aa + bb + ba + ab)\*
- (b) (aa + bb)
- (c) (ab + bb + ba)\*
- (d) a\*b\*a\*b\*
- 15. How many minimum number of states are required in the DFA (over the alphabet (a, b)) accepting all the strings with the number of a's divisible by 4 and number of b's divisible by 5?
- a) 20
- No 19 Jes 7
- (d) 15



## SREE NARAYANA GURU COLLEGE OFENGINEERING. & TECHNOLOGY

Model Exam	2	Academic Year/Semester	2022-23/ S6
Subject name withcode	CST-308 COMPREHENSIVE COURSE WORK	Branch	CSE
Date of Exam	11/04/2023	Duration	30 min
Starting time	10:30 AM	Max. Marks	30

- 1. Given the language l={ab,aa,baa}, which of the following strings are in L\*
- 1) abaabaaabaa
- 2) aaaabaaaa
- 3) baaaaabaaaab
- 4) baaaabaa



B)2,3 and 4

C)1,2 and 4

D)1,3 and 4



- 2. Which one of the following language over the alphabet  $\{0,1\}$  is described by the regular expression: (0+1)\*0(0+1)\*0(0+1)\*?
- A The set of all strings containing the substring 00
  - B The set of all string containing at most two 0's
  - C The set of all string containing at least two 0's
  - D The set of all strings that begin and end with either 0 or 1
- 3. Let S and T be language over {a,b} represented by the regular expression (a+b\*)\* and (a+b)\* respectively. which of the following is true
  - a) SeT (S is subset of T)
- b) TcS(T is subset of S)
- e S=T
- d) SnT=Ø
- 4. Let  $L=\{w \in (0+1)^* | w \text{ has even number of 1s, ie L is the set of all bit string with even number of 1's... which one of the regular expression below represents L?$ 
  - A- (0\*10\*1)\*
- B-0\*(10\*10\*)\*
- C-0\*(10\*1\*)\*0\*
- D-0\*1(10\*1)\*10\*
  - 5 Which of the following denotes Chomskian hiearchy?
- (A) REG ? CFL ? CSL ? type0
- (B) CFL? REG? type0? CSL
- (C) CSL? type0? REG? CFL
- (D) CSL? CFL? REG? type0
- 6.Consider a language L for which there exists a Turing machine TM, T, that accepts every word in L and either rejects or loops for every word not in L. The language L is
- (A) NP hard
- (B) NP complete
- (C) Recursive

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- 7. A language is represented by a regular expression (a)\*(a + ba). Which of the following string does not belong to the regular set represented by the above expression?
- (A) aaa
- (B) aba
- (C) ababa
- (D) aa
- 48. Regular expression are a) Type 0 language by Type 1 language c) Type 2 language d) Type 3 language
- 9. How many strings of length less than 4 contains the language described by the regular expression (x+y)\*y(a+ab)\*?
  - a) 7
- b) 10
- c) 12
- d) 11
- 10. If  $\Sigma = \{0,1\}$ , then  $\Phi^*$  will result to:
- A) E
- В) Ф
- $C) \Sigma$
- D) None of the mentioned
- 11. Which among the following is equivalent to the given regular expression?01\*+1
- 1)(01)\*+1
- 2) 0((1)\*+1)
- **3**) (0(1)\*)+1
- 4) ((0\*1)1\*)\*
- 12. Which of the following regular expression corresponds to the language of all strings over the alphabet (a, b) that contains exactly two a's
  - (i) aa
- (ii) ab\*a
- (iii) b\* ab\* a
- (a) (i) and (ii) only
- (b) (ii) and (iii) only
- (c) (i) and (ii) only
- (d) None of these
- 13. Which of the following regular expression corresponds to the language of all strings over the alphabet (a,
- b) that do not end with ab?
- (a) (a + b)\* (aa + ba + bb)
- (b) (a + b)\*  $(aa + ba + bb) + a + b + \in$
- (c) b\* ab\* a
- (d) b\* aa b\*
- 14. What is regular expression corresponding to the language of strings of even lengths over the alphabet of (a, b)?
- (a) (aa + bb + ba + ab)\*
- (b) (aa + bb)
- (c)(ab + bb + ba)\*
- (d) a\*b\*a\*b\*
- 15. How many minimum number of states are required in the DFA (over the alphabet (a, b)) accepting all the strings with the number of a's divisible by 4 and number of b's divisible by 5?
- a) 20
- (b) 9
- (c) 7
- (d) 15

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### SREE NARAYANA GURU COLLEGE OFENGINEERING & TECHNOLOGY

Model Exam	2	Academic Year/Semester	2022-23/ \$6
Subject name withcode	CST-308 COMPREHENSIVE COURSE WORK	Branch	cse
Date of Exam	11/04/2023	Duration	30 min
Starting time	10:30 AM	Max. Marks	30

- 1. Given the language l={ab,aa,baa}, which of the following strings are in L\*
- 1) abaabaaabaa
- 2) /aaaabaaaa
- 3) baaaaabaaaab
- 4) baaaabaa
- A)1,2 and 3
- B)2,3 and 4
- C)1,2 and 4
- D)1,3 and 4



- 2. Which one of the following language over the alphabet  $\{0,1\}$  is described by the regular expression: (0+1)\*0(0+1)\*0(0+1)\*?
- A The set of all strings containing the substring 00
- B The set of all string containing at most two 0's
- C The set of all string containing at least two 0's.
- D The set of all strings that begin and end with either 0 or 1
- 3. Let S and T be language over  $\{a,b\}$  represented by the regular expression  $(a+b^*)^*$  and  $(a+b)^*$  respectively. which of the following is true
- (a) ScT (S is subset of T)
- b) TcS(T is subset of S)
- S=T
- d) SnT=Ø
- 4. Let  $L=\{w \in (0+1)^* | w \text{ has even number of 1s, ie L is the set of all bit string with even number of 1's.. which one of the regular expression below represents L?$ 
  - A- (0\*10\*1)\*
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- C-0\*(10\*1\*)\*0\*
- D-0\*1(10\*1)\*10\*
- 5 Which of the following denotes Chomskian hiearchy?
- (A) REG? CFL? CSL? type0.
- (B) CFL? REG? type0? CSL
- (C) CSL? type0? REG? CFL
- (D) CSL ? CFL ? REG ? type0
- 6. Consider a language L for which there exists a Turing machine TM, T, that accepts every word in L and either rejects or loops for every word not in L. The language L is
  - (A) NP hard
  - (B) NP complete
  - (C) Recursive

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### (D) Recursively enumerable

- 7. A language is represented by a regular expression (a)\*(a + ba). Which of the following string does not belong to the regular set represented by the above expression?
  - (A) aaa
- (B) aba
- (C) ababa
- (D) aa
- 8. Regular expression are a) Type 0 language b) Type 1 language c) Type 2 language d) Type 3 language
- 9. How many strings of length less than 4 contains the language described by the regular expression (x+y)\*y(a+ab)\*?
- a) 7
  - b) 10 c) 12
- d) 11 ·
- 10. If  $\Sigma = \{0,1\}$ , then  $\Phi^*$  will result to:

- C)  $\Sigma$
- D) None of the mentioned
- 11. Which among the following is equivalent to the given regular expression?01\*+1
- 1)(01)\*+1
- 2) 0((1)\*+1)
- 3)+(0(1)\*)+1
- 4) ((0\*1)1\*)\*
- 12. Which of the following regular expression corresponds to the language of all strings over the alphabet (a, b) that contains exactly two a's
  - (i) aa
- (ii) ab\*a
- (iii) b\* ab\* a
- (a) (i) and (ii) only
- (b) (ii) and (iii) only
- (c) (i) and (ii) only
- (d) None of these .
- 13. Which of the following regular expression corresponds to the language of all strings over the alphabet (a, b) that do not end with ab?
- J(a)(a + b)\* (aa + ba + bb)
- (b)  $(a + b)^*$   $(aa + ba + bb) + a + b + \in$ .
- (c) b\* ab\* a
- (d) b\* aa b\*
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- (c) (ab + bb + ba)\*
- (d) a\*b\*a\*b\*
- 15. How many minimum number of states are required in the DFA (over the alphabet (a, b)) accepting all the strings with the number of a's divisible by 4 and number of b's divisible by 5?
- 20
- (b) 9
- (c) 7
- (d) 15

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### SREE NARAYANA GURU COLLEGE OFENGINEERING & TECHNOLOGY

Model Exam	2	Academic Year/Semester	2022-23/ S6
Subject name withcode	CST-308 COMPREHENSIVE COURSE WORK	Branch	CSE
Date of Exam	11/04/2023	Duration	30 min
Starting time	10:30 AM	Max. Marks	30

- 1. Given the language l={ab,aa,baa}, which of the following strings are in L\*
- 1) abaabaaabaa
- 2) aaaabaaaa
- 3) baaaaabaaaab
- 4) baaaabaa
- A)1,2 and 3
- B)2,3 and 4
- (A)1,2 and 4
- D)1,3 and 4



- 2. Which one of the following language over the alphabet  $\{0,1\}$  is described by the regular expression: (0+1)\*0(0+1)\*0(0+1)\*?
- A The set of all strings containing the substring 00
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- ✓a) ScT (S is subset of T)
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  - c) S=T
  - d) SnT=Ø
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- (D) CSL? CFL? REG? type0
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  - (B) NP complete
  - (C) Recursive

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### √(D) Recursively enumerable

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- (A) aaa
- (B) aba
- (C) ababa
- (D) aa
- 8. Regular expression are a) Type 0 language b) Type 1 language c) Type 2 language dy Type 3 language
- 9. How many strings of length less than 4 contains the language described by the regular expression (x+y)\*y(a+ab)\*?
- a) 7
  - 7 b) 10
- c) 12
- 10. If  $\Sigma = \{0,1\}$ , then  $\Phi^*$  will result to:
- A) 8
- **₿)**Ф
- C) Σ

d) 11

- D) None of the mentioned
- 11. Which among the following is equivalent to the given regular expression?01\*+1
- 1)(01)\*+1
- 2) 0((1)\*+1)
- $(0(1)^*)+1$ 
  - 4) ((0\*1)1\*)\*
- 12. Which of the following regular expression corresponds to the language of all strings over the alphabet (a, b) that contains exactly two a's
  - (i) aa
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- (a) (i) and (ii) only
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- (a) (a + b)\* (aa + ba + bb)
- (b)  $(a + b)^* (aa + ba + bb) + a + b + \in$ 
  - (c) b\* ab\* a
  - (d) b\* aa b\*
- 14. What is regular expression corresponding to the language of strings of even lengths over the alphabet of (a, b)?
- (a) (aa + bb + ba + ab)\*
- √(b) (aa + bb)
- (c) (ab + bb + ba)\*
- (d) a\*b\*a\*b\*
- 15. How many minimum number of states are required in the DFA (over the alphabet (a, b)) accepting all the strings with the number of a's divisible by 4 and number of b's divisible by 5?
- a) 20
- (b) 9
- (c) 7
- (d) 15

Name: Gopika pramod . Kumaer

Roll No: ... SNC2013022



## SREE NARAYANA GURU COLLEGE OFENGINEERING & TECHNOLOGY

Model Exam	3	Academic Year/Semester	2022-23/ S6
Subject name withcode	CST-308 COMPREHENSIVE COURSE WORK	Branch	CSE
Date of Exam	25/04/2023	Duration	30 min
Starting time	1:00pm	Max. Marks	30

- 12 Cache memory works on the principle of
- Locality of data
- B. Locality of memory
- C. Locality of reference
- D. Locality of reference & memory
- 2) The circuit converting binary data in to decimal is
- A. Encoder
- B. Multiplexer
- Q. Decoder
- D. Code converter
- 3) The address in the main memory is known as -
- A.Logical address
- B. Physical address
- C.Memory address
- D. None of the above
- 4) Which of the following is a combinational logic circuit which sends data from a single source to two or more separate destinations?
- A.Multiplexer
- B.Demultiplexer
  - C.Encoder
  - D.Decoder
  - 5) Which of the following is a group of bits that tells the computer to perform a particular operation?
  - a. Accumulator
  - b. Register
- c. Instruction code
- d. None of the above
- 6) The status bit is also called as-
- a. Unsigned bit
- b. Signed bit
- e. Flag bit
- d. None of the above



7) Which of the following topology is used in Ethernet?	will the same
a. Ring topology b. Bus topology c. Mesh topology	
d. Star topology	
8) Who developed the basic architecture of computer?	
A.Blaise Pascal	
B.Charles Babbage C.John Von Neumann	
D. None of the above	
9) Which of the following is not considered as a peripheral device?	
B.Keyboard	
C.Monitor D.All of the above	
D.All of the above	
10) With the reference to computer memory, which of the following is not a address binding to	type?
A.Load time  B.Memory time	Agrillovice C
C.Compile time	
D.Execution time	
11) The addressing mode used in an instruction of the form ADD XY, is	
A. Absolute	
B.Indirect	
C.Índex D.None of these	
12) Which of the following is not a weighted code?  A.Decimal Number system	and the second second
B.Excess 3-cod	
C.Binary number System	
D.None of these	Z10 1 10 10 10 10 10 10 10 10 10 10 10 10
13) Content of the program counter is added to the address part of the instruction in order to	o obtain the
effective address is called.	
A. relative address mode B. index addressing mode	
C.register mode	
D.implied mode	
14) The operation executed on data stored in registers is called	
A.Macro-operation	
B.Micro-operation C.Bit-operation	
D.Byte-operation	
15) The BSA instruction is (A) Branch and store accumulator	
(B) Branch and save return address	
(C) Branch and shift address	
(D) Branch and show accumulator	



## SREE NARAYANA GURU COLLEGE OFENGINEERING TECHNOLOGY

Model Exam	3	Academic Year/Semester	2022-23/ S6
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Date of Exam	25/04/2023	Duration	30 min
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- 12 Cache memory works on the principle of
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- D.Decoder
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- a. Accumulator
- b Register
- c Instruction code
- d. None of the above
- 6) The status bit is also called as-
- a. Unsigned bit
- b. Signed bit
- c. Flag bit
- d. None of the above



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e. Mesh topology d. Star topology 8) Who developed the basic architecture of computer? A Blaise Pascal B.Charles Babbage C.John Von Neumann D. None of the above 9) Which of the following is not considered as a peripheral device? A.CPU B.Keyboard @.Monitor D. All of the above 10) With the reference to computer memory, which of the following is not a address binding type? A.Load time B.Memory time C.Compile time D.Execution time 11) The addressing mode used in an instruction of the form ADD XY, is A. Absolute B.Indirect Cindex D. None of these 12) Which of the following is not a weighted code? A.Decimal Number system B Excess 3-cod C.Binary number System D.None of these 13) Content of the program counter is added to the address part of the instruction in order to obtain the effective address is called. A. relative address mode B. index addressing mode C.register mode D.implied mode 14) The operation executed on data stored in registers is called A.Macro-operation B Micro-operation C.Bit-operation D.Byte-operation 15) The BSA instruction is (A) Branch and store accumulator (B) Branch and save return address (C) Branch and shift address (D) Branch and show accumulator

7) Which of the following topology is used in Ethernet?

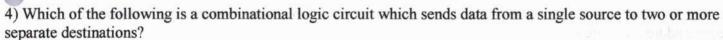
a. Ring topologyb. Bus topology



## SREE NARAYANA GURU COLLEGE OFENGINEERING TECHNOLOGY

Model Exam	3	Academic Year/Semester	2022-23/ S6
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- C. Decoder
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- 3) The address in the main memory is known as -
- A.Logical address
- B. Physical address
- C.Memory address
- D.None of the above



- A.Multiplexer
- B.Demultiplexer
- C.Encoder
- D.Decoder
- 5) Which of the following is a group of bits that tells the computer to perform a particular operation?
- a. Accumulator
- b. Register
- c. Instruction code
- d. None of the above
- 6) The status bit is also called as-
- a. Unsigned bit
- b. Signed bit
- c. Flag bit
- d. None of the above



a. Ring topology b. Must topology c. Mesh topology d. Star topology d. Star topology 8) Who developed the basic architecture of computer? Al Blaise Pascal B. Charles Babbage C. John Von Neumann D. None of the above 9) Which of the following is not considered as a peripheral device? ACPU B. Keyboard C.Monitor D. All of the above 10) With the reference to computer memory, which of the following is not a address binding type? A. Load time B. Memory time C. Compile time D. Execution time 11) The addressing mode used in an instruction of the form ADD XY, is A. Absolute B. Indirect C. Index D. None of these 12) Which of the following is not a weighted code? A. Decimal Number system B. Excess 3-cod C. Binary number System D. None of these 13) Content of the program counter is added to the address part of the instruction in order to obtain the effective address in mode C. register mode D. implied mode 14) The operation executed on data stored in registers is called A. Macro-operation B. Micro-operation B. Micro-operation D. Byte-operation D. Byte-O	7) Which of the following topology is used in Ethernet?		-1 - N/2
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(A) Branch and store accumulator (B) Branch and save return address	15) The RSA instruction is		
(B) Branch and save return address			
	(C) Branch and shift address		
(D) Branch and show accumulator	(D) Branch and show accumulator	,	
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Roll No: . . 40



## SREE NARAYANA GURU COLLEGE OFENGINEERING TECHNOLOGY

Model Exam	3	Academic Year/Semester	2022-23/ S6
Subject name withcode	CST-308 COMPREHENSIVE COURSE WORK	Branch	CSE
Date of Exam	25/04/2023	Duration	30 min
Starting time	1:00pm	Max. Marks	30

- 1) Cache memory works on the principle of
- Locality of data
- B. Locality of memory
- C. Locality of reference
- D. Locality of reference & memory
- 2) The circuit converting binary data in to decimal is
- A. Encoder
- B. Multiplexer
- Q. Decoder
- D. Code converter
- 3) The address in the main memory is known as -
- A.Logical address
- B. Physical address
- C.Memory address
- D. None of the above
- 4) which of the following is a combinational logic circuit which sends data from a single source to two or more separate destinations?
- A.Multiplexer
- .B.Demultiplexer
- C.Encoder
- D.Decoder
- 5) Which of the following is a group of bits that tells the computer to perform a particular operation?
- a. Accumulator
- b. Register
- c. Instruction code
  - d. None of the above
- 6) The status bit is also called as-
- a. Unsigned bit
- b. Signed bit
- c. Flag bit
- d. None of the above



7) Which of the following topology is used in Ethernet? a. Ring topology b. Bus topology c. Mesh topology d. Star topology 8) Who developed the basic architecture of computer? A.Blaise Pascal **B.Charles Babbage** C.John Von Neumann D. None of the above 9) Which of the following is not considered as a peripheral device? A.CPU B.Kevboard C.Monitor D.All of the above 10) With the reference to computer memory, which of the following is not a address binding type? A.Load time B.Memory time C.Compile time D.Execution time 11) The addressing mode used in an instruction of the form ADD XY, is A. Absolute B.Indirect C.Index D.None of these 12) Which of the following is not a weighted code? A.Decimal Number system B.Excess 3-cod C.Binary number System D.None of these 13) Content of the program counter is added to the address part of the instruction in order to obtain the effective address is called. A. relative address mode B. index addressing mode C.register mode D.implied mode 14) The operation executed on data stored in registers is called A.Macro-operation B.Micro-operation C.Bit-operation D.Byte-operation 15) The BSA instruction is (A) Branch and store accumulator (B) Branch and save return address

(C) Branch and shift address
(D) Branch and show accumulator



### SREE NARAYANA GURU COLLEGE OF ENGINEERING & \_\_\_TECHNOLOGY

### **COURSE TEAM MEETING CHECKLIST**

SEMESTER: 56

DATE OF THE MEETING:

VENUE: CSC Smart room

TIME:

1. NAME OF THE FACULTY: Yeera.KK

2. DEPARTMENT: CSG

3. SUBJECT CODE AND NAME: CST 206 Comprehensive Course work

4. DETAILS REGARDING THE SUBJECT:

WHETHER HANDLING SUBJECT FOR THE FIRST TIME? IF NOT MENTION THE COUNT EXCLUDING THIS TIME	Ver.
TARGET PASS PERCENTAGE	70
NATURE OF THE SUBJECT	EASY / MODERATE / TOUGH
CPS	COMPLETED / NOT COMPLETED
ATTENDANCE REGISTER	COMPLETED / NOT COMPLETED
ASSESSMENT PLAN	FILED / NOT FILED
ACADEMIC CALENDAR	FILED / NOT FILED
QP & SCHEME OF FIRST ASSIGNMENT	AVAILABLE / NOT AVAILABLE
QP & SCHEME OF SERIES TEST 1	AVAILABLE / NOT AVAILABLE
FEEDBACK OF THE TUTOR REGARDING THE CLASS	- students with good menouppour -most of the students one in avera
ACTION PLAN BY THE FACULTY TO ACHEIVE TARGET PASS PERCENTAGE	- Moctest are conducted band on each con subject.
ANY OTHER REMARKS FROM THE FACULTY	

FACULTY

COURSE MAIRMAN

HOD



### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### VISION OF THE DEPARTMENT

To be a center of excellence in Computer Science and Engineering to produce competent professionals and entrepreneurs capable of exploring and assimilating latest technological advancements for the betterment of the society.

#### MISSION OF THE DEPARTMENT

- To facilitate transformative education in computer science and engineering.
- To build competent professionals and entrepreneurs by introducing new technologies.
- To accomplish higher education, induce ethical values and spirit of social commitment.

June Braden



# APJ Abdul Kalam Technological University CET Campus, Thiruvananthapuram Kerala -695016 India

#### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Students Examination Eligibility Details

Academic Year : 2022 - 2023

Degree Type : Regular

Program:

**Branch: COMPUTER SCIENCE AND ENGINEERING** 

Semester: S6

B.Tech(Full Time)

Course Name: COMPREHENSIVE COURSE

Batch: 1

WORK-CST308

**Eligibility For: Pursuing Students** 

Period of Registration: NA

Student Name	Attendance %, Internal Marks	Availed Leaves	Disc. Action	Eligible for Written Exam	Status:	In- eligibility Type
AARDRA PRASANTH Register No : SNC20CS001	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	
AATHISH R Register No : SNC20CS002	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	
ABHIJITH A Register No : SNC20CS003	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	
ABHINAV A V Register No : SNC20CS004	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	V- 05

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ABHIRAM A V Register No : SNC20CS005	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
ABHIRAM T Register No : SNC20CS006	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
ABHISHEK K Register No : SNC20CS007	Attendance : 90.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
AKASH SUNILKUMAR Register No : SNC20CS008	Attendance : 80.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
AMAL M Register No : SNC20CS009	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
AMAL M V Register No : SNC20CS010	Attendance : 90.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
ANAGHA ANILKUMAR Register No : SNC20CS011	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
ANAGHA P P Register No : SNC20CS012	Attendance : 80.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
ANANDASREE KRISHNAN Register No : SNC20CS013	Attendance : 90.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
ANIRUDH SHAJI Register No : SNC20CS014	Attendance : 90.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	

	1				
ANJALI M Register No : SNC20CS015	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
ANURAG MT Register No : SNC20CS016	Attendance : 80.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
ARJUN M Register No : SNC20CS017	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
ASWATHI PI Register No : SNC20CS018	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
DILNA P Register No : SNC20CS019	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
FATHIMATHUL FAMEENABI PV Register No : SNC20CS020	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
GOKUL A Register No : SNC20CS021	Attendance : 90.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
GOPIKA PRAMOD KUMAR Register No : SNC20CS022	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
G P THRISHNA Register No : SNC20CS023	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
HAMNA SHERIN A Register No : SNC20CS024	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	

HIMA MURALI K Register No : SNC20CS025	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
K ATHUL Register No : SNC20CS026	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
KEERTHANA CV Register No : SNC20CS027	Attendance : 90.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
MOHAMMED RAZI HAMZA Register No : SNC20CS028	Attendance : 90.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
MOHAMMED ZANIL P V Register No : SNC20CS029	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
MOHAMMED ZAYISH T P Register No : SNC20CS030	Attendance : 90.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
MRUDHUNA MANOJ K Register No : SNC20CS031	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
MUHAMMED ANSAR SAFER Register No : SNC20CS032	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
NANDANA M V Register No : SNC20CS033	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
NILEENA C Register No : SNC20CS034	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	

PARTHIP K ANISH Register No : SNC20CS035	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
REHAN P Register No : SNC20CS036	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
RIYA RAJESH Register No : SNC20CS037	Attendance : 90.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	13
SAFA ACHIRETHARAMM AL KURUKKAN Register No : SNC20CS038	Attendance : 80.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
SANDRA B Register No : SNC20CS039	Attendance : 80.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
SNEHA E Register No : SNC20CS040	Attendance : 100.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
SREERAJ S NAIR Register No : SNC20CS041	Attendance : 90.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by college	
VISWAJEETH P Register No : SNC20CS042	Attendance : 90.0 Internal Marks	Long Leave : Duty Leave :	Yes	Submitted by college	

DEGREE / BRANCH	Brech
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### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

**ATTENDANCE** 

AND

ASSESSMENT RECORD

### Mission

To provide technical education of the highest quality and standard of excellence for socio-economic progress embedded in clearly articulated values and supported by commitments.

### Vision

A knowledge society promoting human excellence and enlightenment through effective education.

SREE NARAYANA GURU COLLEGE OF **ENGINEERING & TECHNOLOGY** 



# SREE NARAYANA GURU COLLEGE

### **ATTENDANCE** AND

### ASSESSMENT RECORD

NAME OF STAFF Ms. Veena K	IC.
DESIGNATION Ass t Prop	
DEPARTMENT CSC	
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	B. Tech CSE Subject CCW											
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## SREE NARAYANA GURU COLLEGE OF ENGINEERING

### **TECHNOLOGY**

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## NAME LIST - S6 CSE (2020-2024 BATCH)

SL.NO:	REGISTER NO	NAME
1	SNC20CS001	AARDRA PRASANTH
2	SNC20CS002	AATHISH R
3	SNC20CS003	АВНІЈІТН А
4	SNC20CS004	ABHINAV A V
5	SNC20CS005	ABHIRAM A V
6	SNC20CS006	ABHIRAM T
7	SNC20CS007	ABHISHEK K
8	SNC20CS008	AKASH SUNILKUMAR
9	SNC20CS009	AMAL M
10	SNC20CS010	AMAL M.V
11	SNC20CS011	ANAGHA ANILKUMAR
12	SNC20CS012	ANAGHA P P
13	SNC20CS013	ANANDASREE KRISHNAN
14	SNC20CS014	ANIRUDH SHAJI
15	SNC20CS015	ANJALI M
16	SNC20CS016	ANURAG MT
17	SNC20CS017	ARJUN M
18	SNC20CS018	ASWATHI PI
19	SNC20CS019	DILNA P
20	SNC20CS020	FATHIMATHUL FAMEENABI P V
21	SNC20CS021	GOKUL A
22	SNC20CS022	GOPIKA PRAMOD KUMAR
23	SNC20CS023	G P THRISHNA
24	SNC20CS024	HAMNA SHERIN A
25	SNC20CS025	HIMA MURALI K
26	SNC20CS026	K ATHUL
27	SNC20CS027	KEERTHANA CV
28	SNC20CS028	MOHAMMED RAZI HAMZA
29	SNC20CS029	MOHAMMED ZANIL P V
30	SNC20CS030	MOHAMMED ZAYISH THAYYIL
31	SNC20CS031	MRUDHUNA MANOJ K
32	SNC20CS032	MUHAMMED ANSAR SAFER
33	SNC20CS033	NANDANA M.V
34	SNC20CS034	NILEENA C
35	SNC20CS035	PARTHIP K ANISH
36	SNC20CS036	REHAN P
37	SNC20CS037	RIYA RAJESH
38	SNC20CS037	SAFA ACHIRETHARAMMAL KURUKKAN
39	SNC20CS039	SANDRA B
40	SNC20CS040	SNEHA E
41	SNC20CS041	SREERAJ S NAIR
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	COMPREHENSIVE COURSE	CATEGORY	L	T	P	CREDIT
ECT308	WORK	PCC	1	0	0	1

#### Preamble:

The objective of this Course work is to ensure the comprehensive knowledge of each student in the most fundamental Program core courses in the curriculum. Five core courses credited from Semesters 3, 4 and 5 are chosen for the detailed study in this course work. This course has an End Semester Objective Test conducted by the University for 50 marks. One hour is assigned per week for this course for conducting mock tests of objective nature in all the listed five courses.

#### Prerequisite:

- 1. ECT202 Analog Circuits
- 2. ECT203 Logic Circuit Design
- 3. ECT301 Linear Integrated Circuits
- 4. ECT303 Digital Signal processing
- 5. ECT305 Analog and Digital communication

Course Outcomes: After the completion of the course the student will be able to

CO 1	Apply the knowledge of circuit theorems and solid state physics to solve the problems in electronic Circuits
CO 2	Design a logic circuit for a specific application
CO3	Design linear IC circuits for linear and non-linear circuit applications.
CO 4	Explain basic signal processing operations and Filter designs
CO 5	Explain existent analog and digital communication systems

#### Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	1									2
CO 2	3	3	1			201	4					2
CO 3	3	3	1									2
CO 4	3	2										2
CO 5	3	2	1									2

#### **Assessment Pattern**

Bloom's Category	End Semester Examination
Remember	10
Understand	20
Apply	20
Analyse	
Evaluate	
Create	

## Mark distribution

Total Marks	CIE	ESE	ESE Duration
50	0	50	1 hour

End Semester Examination Pattern: Objective Questions with multiple choice (Four). Question paper include Fifty Questions of One mark each covering the five identified courses.

## Syllabus Full Syllabus of all five selected courses

#### **Course Contents and Lecture Schedule**

No	Topic	No. of Lectures			
1	Analog Circuits				
1.1	Mock Test on Module 1 and Module 2	1			
1.2	Mock Test on Module 3, Module 4 and Module 5	1			
1.3	Feedback and Remedial 1				
2	Logic Circuit design				
2.1	Mock Test on Module 1, Module 2 and Module 3	1			
2.2	Mock Test on Module 4 and Module 5	1			
2.3	Feedback and Remedial	1			
3	Linear IC				
3.1	Mock Test on Module 1 and Module 2	1			
3.2	Mock Test on Module 3, Module 4 and Module 5	1			
3.3	Feedback and Remedial	1			
4	Digital Signal Processing	•			
4.1	Mock Test on Module 1, Module 2 and Module 3	1			
4.2	Mock Test on Module 4 and Module 5	1			
4.3	Mock Test on Module 1, Module 2 and Module 3	1			
5	Analog and Digital Communication				
5.1	Mock Test on Module 1, Module 2 and Module 3	1			
5.2	Mock Test on Module 4 and Module 5	1			
5.3	Feedback and Remedial	1			

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## SREE NARAYANA GURU COLLEGE OF ENGINEERING \*\*ECHNOLOGY\*\*

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG. ECT 308 COMPREHENSIVE COURSE WORK

#### **MOCK TEST 1**

Topics: Analog circuits module 1, module 2

Time: 15 minutes Marks: 20 marks

- 1) A Differentiator circuit is mainly
  - a) A High pass filter with low time constant.
  - b) A High pass filter with 0.75 time constant.
  - c) A High pass filter with small time constant.
  - d) A High pass filter with 0.50 time constant.
- 2) The transfer function of an low-pass RC network is
  - a) RCs/1+RCs b) 1/1+RCs c) RC/1+RCs d) s/1+RCs
- 3) An integrator converts square wave in to -----
  - a) Positive &negative spikes b) ramp signal c) triangular wave d) sine wave
- 4) Condition of Integrator
  - a) RC > T b) RC = T c) RC << T
- 5) Frequency response of integrator same as that of
- a) Amplifier b) LPF c) HPF d) BPF
- 6) ----- circuit is used to convert triangular to square
- a) Differentiator b) integrator c) amplifier d) Schmitt trigger
- 7) The output of an RC integrator circuit is taken across
- a) Resistor b) capacitor c) diode d) None of these
- 8) Condition for a good differentiator
  - a) RC>.0016T b) RC<<0016T c) RC>15 T d) RC=T
- 9) An integrator is a
- a) High pass circuit with large time constant b) Low pass circuit with small time constant
- c) High pass circuit with small time constant d) Low pass circuit with large time constant

10) Find the cut off frequency for an RC low pass filter of R=8.2 $\Omega$ and C=0.0033 $\mu$ F?
a) 6 KHz b) 5.88KHz c) 4.26KHz d) 7.91 KHz
11) Frequency at which gain equal to .707 of maximum value is called
a) Cut off frequency b) corner frequency c) pass band frequency d) stop band frequency
12) A square wave can be generated from a sinusoidal wave by using
a) Positive clipper b) slicer c) double clipper d) Negative clipper
13) In a shunt diode clipper, the signal will be transmitted when the diode is
a) OFF b) ON c) any of the state d) None of these
14) Transfer characterstics is the graph between
a) Vin on x axis Vo on Y axis b) Vin on y axis Vo on x axis c) Vin on X axis t on y axis d)  None of these
15) What type of diode circuit is used to add or restore a dc level to an electrical signal?
a) Clamper b) Clipper c)Amplifier d) Integrator
16) A clamping circuit is also called
a) Limiter b) DC restorer c) Integrator d) Differentiator
17) Which biasing scheme is used in RC coupled amplifier
a) Emitter bias b) Fixed bias c) Voltage divider bias d) collector to base feedback
18) In CE amplifier input and output signal are in
a) In phase b)180 degree out of phase c)0 degree out of phase d) 90 degree out of phase
10) Thermal runaway is due to
a) Changes in operating point b) change in biasing c) decrease in temperature d) All of
these
20) The main components responsible for fall in gain at high frequency
a) Coupling capacitor b) resistors c) bypass capacitor d) Internal capacitors.
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## SREE NARAYANA GURU COLLEGE OF ENGINEERING ALLO TECHNOLOGY

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION FNGG. ECT 308 COMPREHENSIVE COURSE WORK

#### MOCK TEST 1

Topics: Analog circuits module 1, module 2



Time: 15 minutes

Marks: 20 marks

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  - a) RCs/1+RCs by 1/1+RCs c) RC/1+RCs d) s/1+RCs
- 3) An integrator converts square wave in to ----
  - a) Positive &negative spikes b) ramp signal c) friangular wave d) sine wave
- 4) Condition of Integrator

$$Q(RC >> T \ b) RC = T \ c) RC << T$$

- 5) Frequency response of integrator same as that of
  - a) Amplifier by LPF c) HPF d) BPF
- 6) ----- circuit is used to convert triangular to square
- a) Differentiator b) integrator c) amplifier d/Schmitt trigger
- 7) The output of an RC integrator circuit is taken across
- a) Resistor by capacitor c) diode d) None of these
- 8) Condition for a good differentiator
  - a) RC > .0016T by RC < < .0016T c) RC > 15 T d) RC = T
- 9) An integrator is a
- a) High pass circuit with large time constant b) Low pass circuit with small time constant
- c) High pass circuit with small time constant d) Low pass circuit with large time constant





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## SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG.

## ECT 308 COMPREHENSIVE COURSE WORK

#### MOCK TEST 1

Topics: Analog circuits module 1, module 2



Time: 15 minutes

Marks: 20 marks

- 1) A Differentiator circuit is mainly
  - a) A High pass filter with low time constant.
  - A High pass filter with 0.75 time constant.
  - c) A High pass filter with small time constant.
  - d) A High pass filter with 0.50 time constant.
- 2) The transfer function of an low-pass RC network is RCs/1+RCs b) 1/1+RCs c) RC/1+RCs d) s/1+RCs
- 3) An integrator converts square wave in to ----
  - a) Positive &negative spikes b) ramp signal cf triangular wave d) sine wave
- 4) Condition of Integrator

$$RC >> T$$
 b)  $RC = T$  c)  $RC << T$ 

- 5) Frequency response of integrator same as that of
- a) Amplifier b) LPF c) HPF d) BPF
- 6) ----- circuit is used to convert triangular to square
- a) Differentiator b) integrator c) amplifier d) Schmitt trigger
- 7) The output of an RC integrator circuit is taken across
- a) Resistor by capacitor c) diode d) None of these
- 8) Condition for a good differentiator
  - a) RC > .0016T by RC < < .0016T c) RC > 15 T d) RC = T
- 9) An integrator is a
- a) High pass circuit with large time constant b) Low pass circuit with small time constant
- c) High pass circuit with small time constant dy Low pass circuit with large time constant

10) Find the cut off frequency for an RC low pass filter of R=8.2 $\Omega$ and C=0.0033 $\mu$ F?
a) 6 KHz b) 5.88KHz c) 4.26KHz d) 7.91 KHz
11) Frequency at which gain equal to .707 of maximum value is called
(Cut off frequency b) corner frequency c) pass band frequency d) stop band frequency
12) A square wave can be generated from a sinusoidal wave by using
a) Positive clipper b) slicer & double clipper d) Negative clipper
13) In a shunt diode clipper, the signal will be transmitted when the diode is
a) OFF (VON c) any of the state d) None of these
14) Transfer characterstics is the graph between
a) Vin on x axis Vo on Y axis by Vin on y axis Vo on x axis c) Vin on X axis t on y axis d)
None of these
15) What type of diode circuit is used to add or restore a dc level to an electrical signal?
a) Clamper b) Clipper c)Amplifier d) Integrator
16) A clamping circuit is also called
a) Limiter by DC restorer c) Integrator d) Differentiator
17) Which biasing scheme is used in RC coupled amplifier
a) Emitter bias b) Fixed bias c/Voltage divider bias d) collector to base feedback
18) In CE amplifier input and output signal are in
a) In phase b) 180 degree out of phase c)0 degree out of phase d) 90 degree out of phase
19) Thermal runaway is due to
(Changes in operating point b) change in biasing c) decrease in temperature d) All of
these
20) The main components responsible for fall in gain at high frequency
Coupling capacitor b) resistors c) bypass capacitor d) Internal capacitors.
******************

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Ry. NO: SNIZO ECOO3

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGIG.

## ECT 308 COMPREHENSIVE COURSE WORK

#### **MOCK TEST 1**

Topics: Analog circuits module 1, module 2



Time: 15 minutes

Marks: 20 marks

- 1) A Differentiator circuit is mainly
  - a) A High pass filter with low time constant.
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  - A High pass filter with small time constant.
    - d) A High pass filter with 0.50 time constant.
- 2) The transfer function of an low-pass RC network is
  - a) RCs/1+RCs b) 1/1+RCs c) RC/1+RCs d) s/1+RCs
- 3) An integrator converts square wave in to ----
  - a) Positive &negative spikes b) ramp signal cytriangular wave d) sine wave
- 4) Condition of Integrator

a) 
$$RC >> T$$
 b)  $RC = T$  c)  $RC << T$ 

- 5) Frequency response of integrator same as that of
- a) Amplifier b) LPF c) HPF d) BPF
- 6) ----- circuit is used to convert triangular to square
- a) Differentiator b) integrator c) amplifier dy Schmitt trigger
- 7) The output of an RC integrator circuit is taken across
- a) Resistor b) capacitor c) diode d) None of these
- 8) Condition for a good differentiator

- 9) An integrator is a
- a) High pass circuit with large time constant b) Low pass circuit with small time constant
- c) High pass circuit with small time constant d) Low pass circuit with large time constant

10) Find the cut off frequency for an RC low pass filter of R=8.2 $\Omega$ and C=0.0033 $\mu$ F?
a) 6 KHz by 5.88KHz c) 4.26KHz d) 7.91 KHz
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13) In a shunt diode clipper, the signal will be transmitted when the diode is
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16) A clamping circuit is also called
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17) Which biasing scheme is used in RC coupled amplifier
Emitter bias b) Fixed bias c) Voltage divider bias d) collector to base feedback
18) In CE amplifier input and output signal are in
a) In phase b)180 degree out of phase c)0 degree out of phase d) 90 degree out of phase
19) Thermal runaway is due to
a) Changes in operating point b) change in biasing c) decrease in temperature d) All of
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20) The main components responsible for fall in gain at high frequency
(a) Coupling capacitor b) resistors c) bypass capacitor d) Internal capacitors.
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## SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG. ECT 308 COMPREHENSIVE COURSE WORK

### **MOCK TEST 2**

Topics: Analog circuits module 3, module 4, module 5

Time: 15 minutes	Marks: 20 marks
1) The maximum theoretical efficiency of class A amplifier is	
a) 12.5 b)0 c)22.5 d)75	
2) A Hartley oscillator uses	
a) A tapped inductor b) A tapped transformer c) A tapped cap	pacitor d) None
3) A wien bridge oscillator is suitable	
a) radio frequency b) audio frequency c) both a and b d) Non	e agains songti til
4) Condition of Integrator	
a) $RC >> T$ b) $RC = T$ c) $RC << T$ (d) none	
5) In an oscillator, the total phase shift around the loop must be	
a) $0^0$ b) $180^0$ c) $270^0$ d) $45^0$	
6) The negative feedback amplifier results in	
a) increased voltage gain b) increased current gain	
c) decreased voltage gain d) decreased power gain	
7) The output of an RC integrator circuit is taken across	
a) Resistor b) capacitor c) diode d) None of these	
8) An oscillator has	
a) positive feedback b) negative feedback c) no feedback d)	None of these
9) An Schmitt trigger has	
a) positive feedback b) negative feedback c) no feedback d) l	None of these
10) A feedback amplifier has	
a) positive feedback b) negative feedback c) no feedback d) No	one of these
11) Frequency at which gain equal to .707 of maximum value is called	
a) cut off frequency b) corner frequency c) pass band frequency d)	stop band frequency

12)  $I_{ds}$  vs  $V_{gs}$  chara of an n-channel enhancement type MOSFET is ..... 13) Cascading two amplifiers result in a) reduction in overall gain and increase in overall bandwidth b) reduction in overall bandwidth and increase in overall gain c) increase in both overall bandwidth and overall gain d) decrease in both overall bandwidth and overall gain 14) For an n-channel enhancement MOSFET Vth = 5v, what is the condition to turn on the device? a) Vgs>0v b) Vgs>5vc) Vgs=0vd) Vgs < 5v15) Highest power gain is for a) CE amplifier b) CC amplifier c)CB Amplifier d) All of these 16) Highest voltage gain is for a) CE amplifier b) CC amplifier c) CB Amplifier d) All of these 17) Which biasing scheme is used in RC coupled amplifier a) Emitter bias b) Fixed bias c) Voltage divider bias d) collector to base feedback 18) In CE amplifier input and output signal are in a) In phase b) 180 degree out of phase c) 0 degree out of phase d) 90 degree out of phase 19) Which of the following amplifier circuit has highest input impedance? a) circuits using BJT b) circuits using MOSFET c) circuits using JFET d) All of these 20) In a CB amplifier, the maximum efficiency could be

a) 50%

b) 25%

c) 100%

d)10%

230

## SREE NARAYANA GURU COLLEGE OF ENGINEERING **TECHNOLOGY**

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG.

### ECT 308 COMPREHENSIVE COURSE WORK

#### **MOCK TEST 2**

Topics: Analog circuits module 3, module 4, module 5



1) The maximum	theoretical	efficiency	of class	A amp	lifier is
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Time: 15 minutes

- c)22.5
- d)75

### 2) A Hartley oscillator uses

- a) A tapped inductor b) A tapped transformer c) A tapped capacitor

Marks: 20 marks

### 3) A wien bridge oscillator is suitable

- a) radio frequency b) audio frequency c) both a and b
- d) None

### 4) Condition of Integrator

a) 
$$RC >> T$$
 b)  $RC = T$  c)  $RC << T$  (d) none

## 5) In an oscillator, the total phase shift around the loop must be

- b) 180° c) 270°

## 6) The negative feedback amplifier results in

- a) increased voltage gain
- b) increased current gain
- c) decreased voltage gain
- d) decreased power gain

## 7) The output of an RC integrator circuit is taken across

- a) Resistor b) capacitor
- c) diode
- d) None of these

## 8) An oscillator has

- a) positive feedback
- b) negative feedback
- c) no feedback
- d) None of these

## 9) An Schmitt trigger has

- a) positive feedback
- b) negative feedback
- c) no feedback
- d) None of these

## 10) A feedback amplifier has

- a) posițive feedback b) negative feedback
- c) no feedback
- d) None of these

## 11) Frequency at which gain equal to .707 of maximum value is called

a) cut off frequency h) corner frequency c) pass hand frequency d) stop hand frequency

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Marks: 20 marks

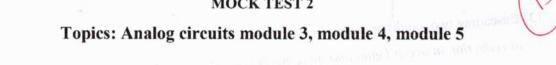
## SREE NARAYANA GURU COLLEGE OF ENGINEERING **TECHNOLOGY**

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION EN G.G.

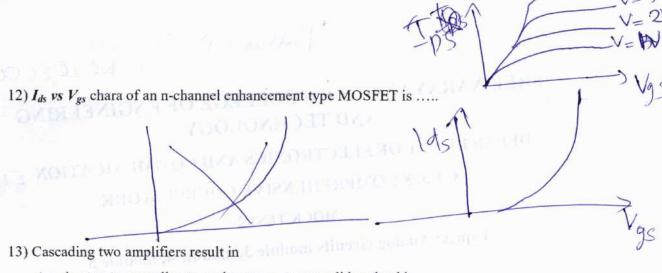
## **ECT 308 COMPREHENSIVE COURSE WORK**

#### **MOCK TEST 2**

Time: 15 minutes



1) The maximum theoretical efficiency of class A amplifier is
a) 12.5 b)0 c)22.5 d)75
2) A Hartley oscillator uses
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3) A wien bridge oscillator is suitable
a) radio frequency b) audio frequency c) both a and b d) None
4) Condition of Integrator
RC >> T b) $RC = T$ c) $RC << T$ (d) none
5) In an oscillator, the total phase shift around the loop must be
a) 0° b) 180° c) 270° d) 45°
6) The negative feedback amplifier results in
a) increased voltage gain by increased current gain
c) decreased voltage gain d) decreased power gain
7) The output of an RC integrator circuit is taken across
a) Resistor by capacitor c) diode d) None of these
8) An oscillator has
positive feedback b) negative feedback c) no feedback d) None of these
9) An Schmitt trigger has
a) positive feedback b) negative feedback c) no feedback d) None of these
10) A feedback amplifier has
a) positive feedback b) negative feedback c) no feedback d) None of these
11) Frequency at which gain equal to .707 of maximum value is called
(g) cut off frequency b) corner frequency c) pass band frequency d) stop band frequency



- a) reduction in overall gain and increase in overall bandwidth
- b) reduction in overall bandwidth and increase in overall gain
- (c) increase in both overall bandwidth and overall gain
- d) decrease in both overall bandwidth and overall gain
- 14) For an n-channel enhancement MOSFET Vth = 5v, what is the condition to turn on the device?
- a) Vgs>0v b) Vgs>5v c) Vgs=0v d) Vgs<5v
- 15) Highest power gain is for
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Meghana Ganejadharan SEEC:

## SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG.

## ECT 308 COMPREHENSIVE COURSE WORK

### **MOCK TEST 2**

Topics: Analog circuits module 3, module 4, module 5

Time: 15 minutes	Marks: 20 marks
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a) 12.5 b)0 c)22.5 d)75	
2) A Hartley oscillator uses	
a) A tapped inductor b) A tapped transformer c) A tapped cap	pacitor d) None
3) A wien bridge oscillator is suitable	
a) radio frequency b) audio frequency c) both a and b d) Nor	ne make to mark that
4) Condition of Integrator	
a) $RC >> T$ b) $RC \neq T$ c) $RC << T$ (d) none	
5) In an oscillator, the total phase shift around the loop must be	
a) $0^{0}/b$ ) $180^{0}$ c) $270^{0}$ d) $45^{0}$	
6) The negative feedback amplifier results in	
a) increased voltage gain b) increased current gain	
c) decreased voltage gain d) decreased power gain	
7) The output of an RC integrator circuit is taken across	
a) Resistor b) capacitor c) diode d) None of these	
8) An oscillator has	
a) positive feedback b) negative feedback c) no feedback d)	None of these
9) An Schmitt trigger has	
a) positive feedback b) negative feedback c) no feedback d),	None of these
10) A feedback amplifier has	/
a) positive feedback b) negative feedback c) no feedback d) N	one of these
11) Frequency at which gain equal to .707 of maximum value is called	
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d) decrease in both overall bandwidth and overall gain
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device?
a) $Vgs>0v$ b) $Vgs>5v$ c) $Vgs=0v$ d) $Vgs<5v$
15) Highest power gain is for
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~
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19) Which of the following amplifier circuit has highest input impedance?  a) circuits using BJT b) circuits using MOSFET c) circuits using JFET d) All of these
a) circuits using D11 b) circuits using MOSFE1 c) circuits using JFE1 d) All of these

20) In a CB amplifier, the maximum efficiency could be

c) 100%

b) 25%

Meghana Gangadharan

S6 EC

8.

a) Common Emitter

Reg	g No.:				Namo	Language Danies L	FI 6 70	T TO SEVERA
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				Course Code:	ECT	ter than that one		
		Course N	ame	: COMPREHEN		291/	RK	
Max.	Marks:				.01.1	COURSE WE		Duration: 1Hour
Instru	ections:	(1) Each question can (2) Total number of q (3) All questions are to which only ONE is co (4) If more than one	uestio to be a orrect.	ons: 50 unswered. Each questi	ion will l	be followed by 4 pos	sible ans	
1.	Wh	ich of the following	pow	er amplifiers has h	ighest	efficiency		
	a)	Class A	b)	Class B	c)	Class AB	d)	Class C
2.	Αb	ypass capacitor pro	vides					
	a)	DC ground	b)	AC ground	c)	Both DC and AC ground	d)	None of these
3.	In a	an oscillator the tota	l pha	se shift around the	loop m	iust be		
	a)	180°	b)	270°	c)	Oo of the land of	d)	90°
A-d-0 m		oridge rectifier circulate of output voltage				it voltage of 20sis	nωt. Th	e average and rms
	a)	$\frac{40}{\pi}$ V and $\frac{20}{\sqrt{2}}$ V	b)	$\frac{20}{20}$ V and $\frac{20}{\sqrt{20}}$ V	c)	$\frac{40}{\pi}$ V and 10 V	d)	$\frac{20}{2}$ V and 10 V
5.		ideal power supply		π v2		n U mesculii		n.
- egenti ti	a)	Zero internal resistance	b)	Infinite internal resistance	c)	High output resistance	d)	Both b and c
6.	A f	ull wave rectifier cir	cuit	using centre tapped	d transf	former, input freq	uency i	s 50Hz. The
	free	quency of the output	is	equired in a single				
	a)	100Hz	b)	50 Hz	c)	25Hz	d)	200Hz
7.	Αc	lipper						
	a)	Adds a dc component to the input signal	b)	Removes signal voltages above or below a specified	c)	Both a and b	d)	Either a or b

value

Which circuit is called emitter follower? of bade on a constitution and another act to dold MASS

b) Common Collector c) Common Base d) Both a and b

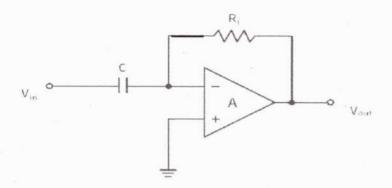
9.	Fo	r a BJT, $\alpha$ and $\beta$ are r	elate	ed as				
	a)	$\alpha = \frac{\beta}{1 - \beta}$	b)	$\beta = \frac{1}{1+\alpha}$	c)	$\beta = \frac{\alpha}{1+\alpha}$	d)	$\beta = \frac{\alpha}{1 - \alpha}$
10.		channel FETs are super						
	a)	electrons is	b)	electrons is	c)	They consume less power	d)	They have high switching time
		smaller than that of holes		greater than that of holes				
11		7F6) <sub>16</sub> = ( ) <sub>10</sub>						
	a)	59382	b)	600000	c)	9362	d)	382
12	WI	nich of these are unive	rsal g	ates?				
	(a)	Only NOR	b)	Only NAND	c)	Both NOR and NAND	d)	NOR, NAND, NOT
13	Α-	- A.B						
	a)	В	b)	A.B	c)	Α	d)	A or B
14	(13	100110)2 = ( )8						
	a)	242		446	c)	146	d)	58
15	A	counter has 4 flip flops.	It di	vides the input freque	ncy b	y		
	a)	4	b)	2	c)	8	d)	16
16	o sno W	nich has the lowest pro	paga	tion delay?				
	a)	ECL	b)	TIL Fall bound to	c)	CMOS	d)	PMOS
17	То	convert JK flip flop to l	) flip	flop				
	a)	Connect D to both J and K	b)	Connect D to J directly and D to K through inverter	c)	Connect D to K directly and D to J through inverter	d)	Connect D to K and leave J open
18	A	monostable multivibrat	or ha			IF IF DE		
	a)	No stable state	b)	One stable state	c)	Two stable state	d)	None of these
19	Ni	bble is funtion				er le		
	a)	A string of 4 bits	b)	A string of 8 bits	c)	A string of 16 bits	d)	A string of 64 bits
20	W	hat is the number of se	lecto	r lines required in a si	ngle i	input n-output demul	tiplex	er?

21 In a linear op-amp circuit

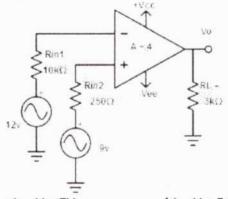
- a) The product of gain and bandwidth is constant b) Input can be dc only c) Input can be ac only d) None of these
- 22 Which of the following circuit is op-amp used in open loop configuration?
- a) comparator b) Summing amplifier c) Integrating amplifier d) Logarithmic amplifier

- The slew rate for an ideal op-amp is
  - a) Very slow
- b) slow
- c) Finite
- d) Infinitely fast

24 If input V<sub>in</sub> is triangular, the output V<sub>Out</sub> will be



- a) Square wave
- b) Sine wave
- c) Triangular wave
- d) spikes
- A 741 op-amp has a gain bandwidth product of 1 MHz. A non-inverting amplifier using this op-amp and having a voltage gain of 20dB will exhibit a 3dB bandwidth of
  - a) 50kHz
- a) 100kHz
- a) 1000kHz
- a) 25kHz
- Which of the following electrical characteristics is not exhibited by an ideal op-amp?
  - a) Infinite voltage gain
- a) Infinite bandwidth a)
- Infinite output resistance
- a) Infinite slew rate
- 27 Calculate the output voltage for the given circuit assuming gain of the amplifier, A=4



- a) Vo=7V
- b) Vo=5.9V

wave

- c) Vo=12V
- d) Vo=11.4V
- What happens if any positive input signal is applied to open loop configuration of op-amp
  - a) Output reaches
     saturation level
- b) Output is a sine
- c) No output
- d) None of These
- 29 Why differential amplifiers are preferred for instrumentation and industrial applications
  - a) Input resistance is
    low
- b) Produce amplified output
- Amplify individual input voltage
- Reject common mode voltage
- Which is not present in the internal circuit of operational amplifier?
  - a) Differential Amplifier
- b) Level Shifter
- c) Clamper

c)

d) Output Driver

The DFT of two sample sequence  $x[n] = \{A, B\}$  is X[K] =

32	The co	omputation of 32-p	ooint	DFT by Radix-2 DIT-FI	FT invo	olvesstages of co	mput	ation.
	a) (	6	b)	5	c)	3	d)	25
33	DFT p	perform filtering o	perat	ion in				
	a) <sup>-</sup>	Time domain	b)	Frequency domain	c)	Both Time & Frequency domain	d)	None of these
34	FFT is $W_N$	a faster method of	comp	outation, because it e	xploit	s the prop	erty o	of the phase factor
	a) I	inearity	b)	time reversal	c)	Time invariant	d)	periodicity
35	The to	olerance in the pass	band	d and stop band are ca	alled			
	a) I	Bandwidth	b)	Ripples	c)	Beam width	d)	None of these
36	In line	ear phase filter whe	n the	impulse is symmetric	al and	I N is even, the magn	itude	function is
	a) /	 Anti-symmetric	b)	symmetric	c)	constant	d)	0
37	In FIR	filter,	is a lir	near function of $\omega$				
	a) /	Amplitude	b)	Phase	c)	Frequency	d)	None of these
38		near Transformatio in Z-plane	n, the	epoles of S-plane	e are r	mapped in to the inte	erior o	f the unit
	a) I	eft half	b)	right half	c)	centre	d)	entire
39	For a	b-bit number, the o	quanti	ization step size is q=				
	a) 2	2 <sup>-b</sup>	b)	$2^b$	c)	b+1	d)	$2^{-b} + 1$
40	The fi	nite word length ef	fects	are due to				
		quantization of input	b)	quantization of products	c)	quantization of coefficients	d)	all of the above
41	For Al	M receivers, the sta	ndar	d IF frequency is				
	a) :	106kHz	b)	455kHz	c)	10.7MHz	d)	1.07MHz
42				ously amplitude mod be present in the out		by 300Hz and 2kHz	audio	signal. Which of the
	a) !	998kHz	b)	999.7kHz	c)	1000.3kHz	d)	700kHz
43		isoidal signal of 2k\ and is	/ peak	is amplitude modula	ted to	give 20% modulatio	n. The	e peak value of each
	a) 4	400V	b)	200V	c)	100V	d)	800V
44	modu			oadcast, the maximaked to kHz. In reference to				
	a) :	300kHz	b)	200kHz	c)	500kHz	d)	600kHz

43	Find	the modulation ind 0.96	dex c				d)	0.64		
46		hout any filtering, a 10 kHz on a superhet						another station at		
	a)	200Hz	b)	400Hz	c)	600Hz	d)	500Hz		
47		PCM system each o	quant	zization level is enco	ded ii	nto 7 bits. The sign	al-to-	quantization noise		
	a)	25.8dB	b)	34.6dB	c)	43.9dB	d)	49.8dB		
48	Delt	ta modulation suffers	from							
	a)	Slope Overload error	b)	Granular Noise	c)	Both a and b	d)	None of these		
49	The bandwidth for transmission in pulse code modulation is									
	a)	Higher than DPCM	b)	Lower than DPCM	c)	Equal to DPCM	d)	None of these		
50		For a 10-bit PCM system, the signal-to-quantization noise ratio is 62 dB. if the number of bits is increased by 2, then the signal-to-quantization noise ratio will								
	a)	Increased by 6dB	b)	Increased by 12dB	c)	Increased by 24dB	d)	Increased by 26dB		

	, jb		12	SET X		Total Pages: X		
Reg No	o.:			Name:	116	Bill is and Pairs	8 to 1	4.8 15 100
SIX				DEGREE (S)CON 2023 (2019 SC	1PRE	HENSIVE EXA		
	(b)	1	112	Course Code:				
		Cour	rse nan	ne: COMPREHE			.)	
Max.	Marks	: 50				1 1 = 3	(8773)	Duration: 1Hou
Instruc	etions:	(2) Total number of (3) All questions as which only ONE is	of question re to be a s correct. ne option	inswered. Each question is chosen, it will not b	n will l	be followed by 4 pos		swers of
	(i)		116				(0)	
1.	Wh	ich of the followi	ng pow	er amplifiers has hi	ghest	efficiency		
	a)		b)		c)		d)	Class C
2.	A b	ypass capacitor p	rovides	este in esteri	ale n	ner has - I villore	A cour	31
- DI	a)		b)	AC ground	(c)		d)	
3.	In a	n oscillator the to	otal phas	se shift around the l	oop m	ust be	HandV4	81
	a)		(b)		(c)	0°	d)	
4.	A b	l oridge rectifier circ s value of output v		ng ideal diode has a are	n inpu	t voltage of 20si	nωt. Th	e average and
	a)	$\frac{40}{\pi}$ V and $\frac{20}{\sqrt{2}}$ V	b)	Note that we will be stated	(c)		d)	
5.	_	$\frac{\pi}{\text{ideal power supp}}$	ly has	The switting of		Adjusting library	nom A	XI .
		Zero internal resistance	b)	The property of	c)		d)	D. D.
6.		A CONTRACTOR OF CONTRACTOR		using centre tapped	transf	ormer, input free	quency	is 50Hz. The
- 1	a)	100Hz	b)		(c)		d)	
7.	Ac	lipper				- >		
	a)		b)	Removes signal voltages above or below a specified value	c)	An edge and a control of the control	d)	
8.	Wh	ich circuit is calle	ed emitt	value		11 N 5 AV 7 AV	60 00 00 1810	

X 181	a)	Total	b)	Common Collector	c)		d)	
9.	For	a BJT, $\alpha$ and $\beta$ are	relate	ed as jornal/				100
YTH	a)	AIN L'AIN	b)	LAM TECHNO	c)	30087 597 5.0.465 5174	d)	$\beta = \frac{\alpha}{1 - \alpha}$
10.	N-ch	nannel FETs are super	ior to	p-channel FETs becau	ise			
	a)	108 VEEXVM ()	b)	Mobility of electrons is greater than that of holes	c)	Cours	d)	
1110	(E7F	6)16 = ( )10					6416)	r,
	a)	59382	b)	otte mark. No negative a	c)	O La tequisition of	d)	lastena
12	Whi	ch of these are unive	rsal g	ates?	army	Ja valimini into i (C)		
(0.50.50	a)		b)	Annalis of words a	c)	Both NOR and NAND	d)	
13	A + .	A.B		mitted	rsq In	(5) Celenteum uren		
	a)		b)		c)	А	d)	
14	(110	00110)2 = ( )8	12011	on amplificas has high	COL.	punction with the fir	100	
Class	a)		b)		(c)	146	d)	
15	A cc	unter has 4 flip flops	. It di	vides the input frequer	ncy by	ong Totologic lesiq	MA	
	a)		b)	houong 3 A	(c)		(d)	16
16	Whi	ch has the lowest pro	paga	tion delay?	ndo I	and off authori	di di	7.
	a)	ECL	b)		(c)		(d)	
17	Toc	convert JK flip flop to	D flip	flop	iziti	nan moderna gle	H A	
	a)	CHIRDS TO SERVICE	b)	Connect D to J directly and D to K	c)	or Ing to 10 salar	d)	
18	A m	onostable multivibra	tor ha	through inverter	L	James awards	ni n.A	<del></del>
-	a)		_	One stable state	c)	Jennyu-1 as	(d)	
19		l ole is	0)		-		(1)	
SOLIK	a)	A string of 4 bits	b)	Learney Latinate Dated	c)		(d)	1
20			1	r lines required in a sir		nut n-output demu		rer?
20	a)	at the fight below a	b)	es required in a sii	_	par ii output deille	d)	
21		linear on ama sincula	1		c)		u)	log <sub>2</sub> n
21		linear op-amp circuit		Hathqual signal			10	
	a)	The product of gain and bandwidth is constant	b)	offaget above on below a specified value	c)	F. 140	d)	
22	Whi	ch of the following ci	rcuit	is op-amp used in oper	n loop	configuration?		1.

Page 2 of 5

	a)	comparator	b)	in a street of the	c)	मानक्षर नगाडा स्त्राति	d)	02.
23	The	slew rate for an ic	deal of	o-amp is			1 (8	
	a)		b)		(c)	things swifte 130	d)	Infinitely fast
24	If in	put V <sub>in</sub> is triangular,	the ou	tput V <sub>0ut</sub> will be		2	l B	
							These	
				R <sub>i</sub>				
	100							
		_C						
	Vin	0		-				
	b VI		anche:	A	V <sub>a</sub>	at .		
	1							
			John					
			÷					
:0171011	a)	Square wave	(b)	The state of the s	(c)	ole print county to	(d)	
25		11 op-amp has a gai		width product of		on-inverting ampli		ng this on-amn
23		having a voltage ga					ner usi	ing this op-amp
	a)		a)	100kHz	a)		a)	
26	Wh	ich of the following	electi	ical characteristic	s is not ex	khibited by an idea	op-a	mp?
ne set	a)	em agricii diada	a)		a)	Infinite output resistance	a)	
27	Calc	ulate the output vo	Itage f	or the given circuit	assuming	gain of the amplifi	er, A=4	
			CC.					
		- 4-	\	Vu				
		₹Rin1 +		T°		i i i i ga da ferri sa sun		
		Rin2	Jee I	RL-				
	(	∑		<b>₹</b> 3kΩ				
	12x	TA		a yaneupa				
	(6)	_ ♠ №		1 188				
	dia	ic i siciliza e e e e e e e e e e e e e e e e e e e						
	a)		b)	0.000 10.000 - 3.00 -	(c)	Vo=12V	d)	
28	Wha	at happens if any po	sitive i	nput signal is appl	ied to ope	n loop configuratio	n of op	o-amp
<del>avsica</del>	a)	Output reaches	b)	The state of the s	(c)	de hand as	d)	
20	110	saturation level	(5)		005 110		(8	
29	Wh	y differential amplifi	Jaba	preferred for inst	rumentati	ion and industrial a	221110	
	a)	ede, find form	b)	n reference to	c)	flyonmanori galla	d)	Reject commo

Page 3 of 5

### DRAFT SCHEME

30	Wh	ich is not present in	n the i	nternal circuit of ope	ratio	nal amplifier?	111	
	a)		b)	St. Dame.	c)	Clamper	d)	
31	The	DFT of two sample s	equer	nce x[n]= {A, B} is X[K]	=			
	a)		b)	sd liw JV sunto	c)	A+B , A-B	d)	
32	The	computation of 32-	ooint D	OFT by Radix-2 DIT-FFT	invo	lvesstages of con	nputa	tion.
	a)		b)	5	c)		d)	
33	DFT	perform filtering of	perati	ion in				
	a)		b)	Frequency domain	c)		d)	
34	FFT W <sub>N</sub>		fcomp	outation, because it ex	ploit	s the prop	erty	of the phase factor
	a)		b)		c)		d)	periodicity
35	The	tolerance in the pas	s band	and stop band are cal	led			
	a)		b)	Ripples	c)		d)	
36	In li		en the	impulse is symmetrica	and	N is even, the magn	itude	function is
o elris	a)	Anti-symmetric	b)	MARTIN ESDEC RELIGION LEGIS E DELL'AND HISTORIES	c)		d)	
37	In F	IR filter,	.is a lir	near function of ω	III,		16	
17	a)		b)	Phase	c)	110000000000000000000000000000000000000	d)	95 7
38		Bilinear Transformation	on, the	poles of S-plane	are r	napped in to the inte	rior o	f the unit
V	a)	left half	b)	ic the given croult ass	c)	albo duqtas outs elich	d)	75.
39	For	a b-bit number, the	quanti	zation step size is q=				
	a)	2 <sup>-b</sup>	b)		c)		d)	
40	The	finite word length e	ffects	are due to	-		1	
	a)		b)		c)		d)	all of the above
41	For	AM receivers, the st	andar	d IF frequency is	-			
	a)		b)	455kHz	c)		d)	
42				ously amplitude modu not be present in the c		1,50	audio	signal. Which of
	a)	Value	b)		c)	constra libraria	d)	700kHz
43		inusoidal signal of 2k h side band is	V peal	is amplitude modulat	ed to	give 20% modulatio	n. The	peak value of
	a)		b)	200V	c)	12V9L0 TLAIR	d)	0
44	mo			oadcast, the maximu kHz. In reference to				

Page 4 of 5

### DRAFT SCHEME

	a)		b)	200kHz	c)		d)	
45	4	and the same of th		the same carrier wit			depth	ns of 0.4 and 0.8.
	a)		b)		c)	0.89	d)	
46	Contract of			adcast station at 180 rodyne receiver. Find		and the second s		another station
	a)		b)		c)		d)	500Hz
47		PCM system each of security security is equal to	uan	tization level is enco	ded i	nto 7 bits. The sig	nal-to-	quantization
	a)		b)		c)	43.9dB	d)	
48	Delt	ta modulation suffers	from	L				,
	a)		b)		c)	Both a and b	d)	
49	The	e bandwidth for trar	ismi	ssion in pulse code m	nodu	ation is	_	<u> </u>
	a)	Higher than DPCM	b)		c)		d)	
50				e signal-to-quantizat ignal-to-quantization			3. if the	number of bits
	a)		b)	Increased by 12dB	c)		d)	

#### DIVISION THANK

is neard together with another station alue of employed IP?	elterng, a broudrast sta malsupemeterodyne re	
o 7 bits. The signal-to-quantization		
one ratio is 62 dB. if the number of bits ratio will		

allocation is



# APJ Abdul Kalam Technological University CET Campus, Thiruvananthapuram Kerala -695016 India

### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Students Examination Eligibility Details

Academic Year : 2022 - 2023

Degree Type : Regular

Program:

**Branch: ELECTRONICS AND COMMUNICATION** 

Semester: S6

B.Tech(Full Time)

**ENGINEERING** 

Course Name: COMPREHENSIVE COURSE

WORK-ECT308

Batch: 1

**Eligibility For: Pursuing Students** 

Period of Registration: NA

Student Name	Attendance %, Internal Marks	Availed Leaves	Disc. Action	Eligible for Written Exam	Status:	In- eligibility Type
DEEPNA CHALIL Register No : SNC20EC002	Attendance : 80.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	
HANEENA SULTHANA Register No : SNC20EC003	Attendance : 87.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	
SANJAY SUDHAKARAN Register No : SNC20EC004	Attendance : 80.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	
SOORAJ SURESH V O Register No : SNC20EC005	Attendance : 80.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by college	

\*Generated on: 2023-07-11,08:41:07

THEJASREE TK Register No : SNC20EC006	Attendance : 93.0 Internal Marks :	Long Leave : Duty Leave :	u Abdul Kata CET Campi K	Yes	Submitted by college	
FATHIMA NASLA M.V Register No : LSNC20EC007	Attendance : 80.0 Internal Marks :	Long Leave : Duty Leave :	RU COLLEG	Yes	Submitted by college	
MEGHANA GANGADHARAN Register No : LSNC20EC008	Attendance : 80.0 Internal Marks :	Long Leave : Duty Leave :	ELECTRONE.	Yes	Submitted by college	nebasia tangan



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION Students Name List\_S6 ECE

Roll No.	Register No.	Name of Students
1	SNC20EC002	Deepna Chalil
2	SNC20EC003	Haneena Sulthana
3	SNC20EC004	Sanjay Sudhakaran
4	SNC20EC005	Sooraj Suresh V O
5	SNC20EC006	Thejasree T K
6	SNC20EC007	Fathima Nasla M V
7	SNC20EC008	Meghana Gangadharan

4/2/23





## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### VISION

 To be a center of excellence in Electronics and Communication Engineering and to create engineers who can address global challenges.

### MISSION

- To provide students with high quality technical education, and to develop their professional and entrepreneurial skills in Electronics and Communication Engineering.
- To enable students for developing different skills, leading to benchmarking and innovations.
- To inculcate in students a high degree of social consciousness and sense of human values.

dus

HOD ECE

Dr. LEENA A. V.
PRINCIPAL
SREE NARAYANA GURU COLLEGE OF
ENGINEERING & TECHNOLOGY, PAYYANUR
KANNUR

Subject : EE1305 , CV B.TubleCE MONTH 2 Degree / Branch 3 4 12 DATE NAME 2 4 5 1 2 14 1234 CLASS HOUR ROLL NO Deepna chalil Haneena Sulthana Sanfay Sudhakaran 2 xxx Goorgy Suresh. V.D 14 Thejasree T K Fattima Nasla M V × 15 12 × 2 Meghana amgadharan

		TOTAL HOURS ENGAGE AWARDING OF MARKS										
ROLL NO.	Hours Present	Thei	Test 2	WARDI	NG OF	MARKS				DANCE		ROLL NO.
	15											
1	12								80	8		1
2	813								87	9		2
3	12								80	8		3
4	12								80	8		4
5	14								93	9.5		5
6	1.2								80	8		6
7	11								80	8		7
						107						
					-							
					S¥.							
_										+	-	-
_		-				-						-

Signature of Staff Member

Module Co-ordinator





# SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### **COURSE PLAN SCHEDULE**

Name of the faculty	VANI R
Designation	Assistant Professor
Faculty department name	ECE
Name of the course with course code	ECT308 COMPREHENSIVE VIVA
Department to which this course is offered	ECE
Semester	Sixth
Academic Year	2022-2023

#### 1. COURSE OVERVIEW

The objective of this Course work is to ensure the comprehensive knowledge of each student in the most fundamental Program core courses in the curriculum. Five core courses credited from Semesters 3, 4 and 5 are chosen for the detailed study in this course work. This course has an End Semester Objective Test conducted by the University for 50 marks. One hour is assigned per week for this course for conducting mock tests of objective nature in the entire listed five courses.

#### 2. COURSE OBJECTIVE

To practice more with core subjects for cracking Gate, placement test and other competitive examinations.

#### 3. PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES

- I. PROGRAM OUTCOMES
  - ENGINEERING KNOWLEDGE
  - PROBLEM ANALYSIS
  - DESIGN / DEVELOPMENT OF SOLUTION
  - CONDUCT INVESTIGATION OF COMPLEX PROBLEMS
  - MODERN TOOL USAGE
  - THE ENGINEER AND SOCIETY
  - ENVIORNMENT AND SUSTAINABILITY
  - ETHICS
  - INDIVIDUAL AND TEAM WORK
  - COMUNICATION

- PROJECT MANAGEMENT AND FINANCE
- LIFE LONG LEARNING

#### II. PROGRAM SPECIFIC OUTCOME

- PSO 1 TO understand skills of students in designing ,implementing and testing Analog and Digital Electronic Circuits including Microprocessor Systems for Signal Processing ,Communication, Networking, VLSI and Embedded Systems applications
- PSO 2 Apply their knowledge and skills to conduct experiments and develop applications using electronic design automation tools (EDA).

#### 4. COURSE OUTCOME

- CO1 Apply the knowledge of circuit theorems and solid state physics to solve the problems in electronic Circuits
- CO2 Design a logic circuit for a specific application
- CO3 Design linear IC circuits for linear and non-linear circuit applications.
- CO4 Explain basic signal processing operations and Filter designs
- CO5 Explain existent analog and digital communication systems

#### 5. COURSE MAPPING

	PO	PSO	PSO											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
COI	Н	Н	L											M
CO1	Н	Н	L											M
COL	Н	Н	L											M
CO₹	Н	M												M
COT	Н	M	L											M

#### 6. SYLLABUS

SL No:	TOPIC	No of Lectures
1	Analog Circuits	
1.1	Mock Test on Module 1 and 2	1
1.2	Mock Test on Module 3,4 and 5	1
1.3	Feedback and Remedial	
2	Logic Circuit Design	1
2.1	Mock Test on Module 1, 2 and 3	1
2.2	Mock Test on Module 4 and 5	1
2.2	Feedback and Remedial	1
3	Linear IC	1
3.1	Mock Test on Module 1 and 2	1
3.2	Mock Test on Module3, 4 and 5	1
3.3	Feedback and Remedial	1
4	Digital Signal Processing	1
4.1	Mock Test on Module 1 and 2	1
4.2	Mock Test on Module3, 4 and 5	1

4.3	Feedback and Remedial	1
5	Analog and Digital Communication	1
5.1	Mock Test on Module 1, 2 and 3	1
5.2	Mock Test on Module 4 and 5	1
5.3	Feedback and Remedial	1

#### MODE OF DELIVERY: LECTURE / TUTORIAL / ASSIGNMENT / PRACTICAL

#### 7. Grading Methods (put a cross mark 'x' whichever is applicable)

_					
Module	Series Test	Assignment	Class Test	Quiz	Tutorial
1			X		
2			K		
3			×		
4			*		
5			X		

#### 8. Subject History

✓ Year Of Introduction of the subject – 2019

✓ Faculty Handled Just before this time – Ms. Meera M

✓ Pass Percentage during last three years – 80%

✓ Target Pass Percentage – 85%

The following is the formula for calculating the target percentage of a subject.

- Average =(x + y + z) / 3, where x, y and z is the previous 3 year subject pass percentage.
- > Target Percentage = Average + (100 Average)/5

#### Example: for a subject in S8,

- ✓ X = PASS PERCENTAGE OF THAT SUBJECT FOR 2016-2020 BATCH
- ✓ Y = PASS PERCENTAGE OF THAT SUBJECT FOR 2015-2019 BATCH
- $\checkmark$  Z = 0
- $\checkmark$  suppose x = 82.54, y = 91.3 then,
- $\checkmark$  Average = [82.54 + 91.3] / 2 = 86.92
- $\checkmark$  TARGET PERCENTAGE = 86.92 + (100 86.92) / 5 = 89.53
- 9. Any other important matter to be brought into consideration: Nil

Manual Prepared by:

Ms. VANI R

AP, ECE

Approved by

Ms. Merran M

AP, ECE

Dated signature of faculty member

Vhello 2/23

Dated signature of Module Coordinator

- Harrad 2023

Dated signature of HOD

La Lizzo



## SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY, AND VANUE

#### COURSE TEAM MEETING CHECKLIST

SEMESTER: S6

DATE OF THE MEETING: 15/2/2023

VENUE: Sensinae hell

TIME: LO.00 am

1. NAME OF THE FACULTY: Van . R

2. DEPARTMENT: ECE

3. SUBJECT CODE AND NAME: ECT 308, comprehensiva With Course work

4. DETAILS REGARDING THE SUBJECT:

WHETHER HANDLING SUBJECT FOR THE FIRST TIME? IF NOT MENTION THE COUNT EXCLUDING THIS TIME	Yee				
TARGET PASS PERCENTAGE	100-7. 90%				
NATURE OF THE SUBJECT	EASY / MODERATE / TOUGH				
CPS	COMPLETED / NOT COMPLETED				
ATTENDANCE REGISTER	COMPLETED / NOT COMPLETED				
ASSESSMENT PLAN	FILED NOT FILED				
ACADEMIC CALENDAR	FILE® / NOT FILED				
QP & SCHEME OF FIRST ASSIGNMENT	AVAILABLE / NOTAVAILABLE				
QP & SCHEME OF SERIES TEST I	AVAILABLE / NOTAVAILABLE				
FEEDBACK OF THE TUTOR REGARDING THE CLASS	Good				
ACTION PLAN BY THE FACULTY TO ACHEIVE TARGET PASS PERCENTAGE	Mock Lest				
ANY OTHER REMARKS FROM THE FACULTY					



# SREE NARAYANA GURU COLLEGE OF ENGINEERING AND TECHNOLOGY, PAYYANUR

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING CUMULATIVE ATTENDANCE

#### ECT308 COMPREHENSIVE WORK

**Total Hours: 15** 

T				Total Hours
Sl. No	Register No.	Name	<b>Hours Present</b>	Attendance (%)
1	SNC20EC002	Deepna Chalil	12	80
2	SNC20EC003	Haneena Sulthana	13	87
3	SNC20EC004	Sanjay Sudhakaran	12	80
4	SNC20EC005	Sooraj Suresh V O	12	80
5	SNC20EC006	Thejasree T K	14	93
6	SNC20EC007	Fathima Nasla M V	12	80
7	SNC20EC008	Meghana Gangadharan	12	80

01/07/23

#### INDEX

SI. N	D. PARTICULARS
1	DEPARTMENT VISION AND MISSION
2	SYLLABUS
3	CPS
4	ATTENDANCE RECORD
5	STUDENT BATCH LIST
6	LIST OF EXPERIMENTS WITH CYCLE
7	RUBRICS FOR EVALUATION
8	CONTINUOUS INTERNAL EVALUATION SHEET
9	VIVA QUESTIONS FOR EACH EXPERIMENT
10	INTERNAL LAB EXAMINATION SCHEDULE
11	INTERNAL LAB EXAMINATION QUESTION PAPER AND SCHEME
12	ATTENDANCE STATEMENT
13	INTERNALS STATEMENT
14	KTU INTERNALS STATEMENT
15	CONTENT BEYOND SYLLABUS - PLAN, EXECUTION AND ASSESMENT
16	GAPS IN THE SYLLABUS- PLAN, EXECUTION AND ASSESMENT
17	EXTERNAL LAB EXAMINATION SCHEDULE
8	CO-PO ATTAINMENT
19 LAB MANUAL	
20 RECORD SAMPLE	
1	INTERNAL LAB EXAMINATION SAMPLE



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HOD ECE

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KANNUR



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY,

(Affiliated to Kerala Technological University, Approved by AICTE, New Delhi)

#### DEPARTMENT OF MECHANICAL ENGINEERING

#### VISION

- ❖ TO BE A CENTRE OF EXCELLENCE TO DEVELOP PROFICIENT ENGINEERS, WHO ARE INNOVATIVE, ENTREPRENEURIAL AND SUCCESSFUL
- TO SUPPORT THE EVERCHANGING INDUSTRIAL DEMANDS AND SOCIAL NEEDS

#### MISSION

- ❖ TO PROVIDE EXCELLENCE IN ENGINEERING EDUCATION FOR THE DEVELOPMENT OF SOCIETY THROUGH EFFECTIVE TEACHING AND ENCOURAGING INNOVATION
- TO IMPART QUALITY ENGINEERING EDUCATION FOR THE DEVELOPMENT OF SOCIETY THROUGH EXCELLENCE IN TEACHING AND INNOVATION.
- ❖ TO INCULCATE ATTITUDE, SKILL AND KNOWLEDGE IN STUDENTS
- ❖ TO REACH THEIR HIGHEST POTENTIAL FOR LIFE-LONG LEARNING

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MET200	COMPREHENSIVE COURSE WORK	CATEGORY	L	T	P	CREDIT
WIE 1300	COM REHENSIVE COURSE WORK	PCC	1	0	0	1

**Preamble:** The course is designed to ensure that the students have firmly grasped the foundational knowledge in Mechanical Engineering familiar enough with the technological concepts. It provides an opportunity for the students to demonstrate their knowledge in various Mechanical Engineering subjects.

Pre-requisite: Nil

Course outcomes: After the course, the student will able to:

CO1	Learn to prepare for a competitive examination			
CO2	Comprehend the questions in Mechanical Engineering field and answer them with confidence			
CO3	Communicate effectively with faculty in scholarly environments			
CO4	Analyze the comprehensive knowledge gained in basic courses in the field of Mechanical Engineering			

#### Mapping of course outcomes with program outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2										2
CO 2	3	2										2
CO 3	3	2										2
CO 4	2	3				ctrd						2

#### Assessment pattern

	70.7
Bloom's Category	End Semester Examination (Marks)
Remember	25
Understand	15
Apply	5

Analyze	5
Evaluate	
Create	

#### **End Semester Examination Pattern:**

A written examination will be conducted by the University at the end of the sixth semester. The written examination will be of objective type similar to the GATE examination. Syllabus for the comprehensive examination is based on following five Mechanical Engineering core courses.

**MET203- MECHANICS OF FLUIDS** 

MET205- METALLURGY AND MATERIAL SCIENCE

**MET202- ENGINEERING THERMODYNAMICS** 

MET204- MANUFACTURING PROCESS

MET301- MECHANICS OF MACHINERY

The written test will be of 50 marks with 50 multiple choice questions (10 questions from each module) with 4 choices of 1 mark each covering all the five core courses. There will be no negative marking. The pass minimum for this course is 25. The course should be mapped with a faculty and classes shall be arranged for practicing questions based on the core courses listed above.

Written examination: 50marks

Total : 50 marks

#### **Course Level Assessment and Sample Questions:**

- 1. The shear stress developed in lubricating oil, of viscosity 9.81 poise, filled between two parallel plates 1cm apart and moving with relative velocity of 2 m/s is
  - (a)  $20 \text{ N/m}^2$
  - (b) 19.62 N/m<sup>2</sup>
  - (c)  $29.62 \text{ N/m}^2$
  - (d)  $40 \text{ N/m}^2$
- 2. For a Newtonian fluid
  - (a) Shear stress is proportional to shear strain
  - (b) Rate of shear stress is proportional to shear strain
  - (c) Shear stress is proportional to rate of shear strain

(d) Rate of shear stress is proportional to rate of shear strain 3. Atomic packing factor (APF) in the case of copper crystal is (a) 0.52(b) 0.68 (c) 0.74(d) 1.633 4. What is the approximate strain energy expression for a dislocation of unit length, irrespective of its edge or screw character? (a)  $G^2b/2$ (b)  $Gb^2/2$ (c)  $G^2b/4$ (d)  $Gb^2/4$ 5. Consider the following statements 1. Zeroth law of thermodynamics is related to temperature 2. Entropy is related to first law of thermodynamics 3. Internal energy of an ideal gas is a function of temperature and pressure 4. Van der Waals' equation is related to an ideal gas Which of the above statements is/are correct? (a) 1 only (b) 2, 3 and 4 (c) 1 and 3 (d) 2 and 4 6. A gas is compressed in a cylinder by a movable piston to a volume one-half of its original volume. During the process, 300 kJ heat left the gas and the internal energy remained same. What is the work done on the gas? (a) 100 kNm (b) 150 kNm (c) 200 kNm (d) 300 kNm 7. Which one of the following casting processes is best suited to make bigger size hollow symmetrical pipes? (a) Die casting (b) Investment casting (c) Shell moulding (d) Centrifugal casting 8. In gas welding of mild steel using an oxy-acetylene flame, the total amount of acetylene consumed was 10 litre. The oxygen consumption from the cylinder is

> (a) 5 litre (b) 10 litre (c) 15litre (d) 20 litre

9. The number of inversions for a slider crank mechanism is

(a) 6 (b) 5 (c) 4 (d) 3

10. Total number of instantaneous centers for a mechanism with n links are

(a) n/2 (b) n (c) (n-1)/2 (d) (n(n-1))/2

#### **Syllabus**

#### MODULE 1

Fluids and continuum, Physical properties of fluids, Newton's law of viscosity. Ideal and real fluids, Newtonian and non-Newtonian fluids. Fluid Statics- Pressure-density-height relationship, manometers, pressure on plane and curved surfaces, center of pressure, buoyancy, stability of immersed and floating bodies

Kinematics of fluid flow: Eulerian and Lagrangian approaches, classification of fluid flow, stream lines, path lines, streak lines, stream tubes, , stream function and potential function

Equations of fluid dynamics: Differential equations of mass, energy and momentum (Euler's equation), Bernoulli's equation, Pipe Flow: Viscous flow: shear stress and velocity distribution in a pipe Hagen Poiseuille equation. Darcy-Weisbach equation,

#### **MODULE 2**

Development of atomic structure - Primary bonds: - characteristics of covalent, ionic and metallic bond - properties based on atomic bonding Crystallography: - SC, BCC, FCC, HCP structures, APF, Miller Indices: - crystal plane and direction - Modes of plastic deformation: - Slip and twinning

Classification of crystal imperfections - forest of dislocation, role of surface defects on crack initiation- Burgers vector -Frank Read source - Correlation of dislocation density with strength and nano concept - high and low angle grain boundaries- driving force for grain growth and applications

Phase diagrams: - need of alloying - classification of alloys - Hume Rothery's rule - equilibrium diagram of common types of binary systems: five types - Coring - lever rule and Gibb's phase rule - Reactions- Detailed discussion on Iron-Carbon equilibrium diagram with micro structure and properties -Heat treatment: - TTT, CCT diagram, applications - Tempering- Hardenability, Jominy end quench test, applications- Surface hardening methods.

#### **MODULE 3**

Basic Thermodynamic Concepts Macroscopic and Microscopic viewpoints, Concept of Continuum, Thermodynamic System and Control Volume, Surrounding, Boundaries, Types of Systems, Universe, Thermodynamic properties, Process, Cycle, Thermodynamic Equilibrium, Quasi – static Process, State, Point and Path function. Zeroth Law of Thermodynamics, Measurement of Temperature, reference Points, Temperature Scales.

First law of Thermodynamics - First law applied to Non flow and flow Process- SFEE

Second Law of Thermodynamics, Kelvin-Planck and Clausius Statements, Equivalence of two statements Entropy-Entropy changes in various thermodynamic processes, principle of increase of entropy and its applications, Available Energy, Availability and Irreversibility- Second law efficiency.

#### **MODULE 4**

Casting:-Characteristics of sand - patterns- cores- -chaplets- simple problems- solidification of metals and Chvorinov's rule - Elements of gating system- risering -chills

Welding:-welding metallurgy-heat affected zone- grain size and hardness- stress reliving- joint quality -heat treatment of welded joints - weldability - destructive and non destructive tests of welded joints Thermit welding, friction welding - Resistance welding, Arc Welding, Oxyacetyline welding

Rolling:- principles - types of rolls and rolling mills - mechanics of flat rolling-Defects-vibration and chatter - flat rolling -miscellaneous rolling process

Forging: methods analysis, applications, die forging, defects in forging

#### MODULE 5

Introduction to kinematics and mechanisms - various mechanisms, kinematic diagrams, degree of freedom- Grashof's criterion, inversions, coupler curves mechanical advantage, transmission angle. straight line mechanisms exact, approximate. Displacement, velocity analysis— relative motion - relative velocity. Instantaneous centre -Kennedy's theorem.

Acceleration analysis- Relative acceleration - Coriolis acceleration - graphical and analytical methods.

Cams - classification of cam and followers - displacement diagrams, velocity and acceleration analysis of SHM, uniform velocity, uniform acceleration, cycloidal motion Graphical cam profile synthesis, pressure angle.



# SREE NARAYANA GURU COLLEGE OF ENGINEERING \*\*TECHNOLOGY\*\*

#### DEPARTMENT OF MECHANICAL ENGINEERING

#### **COURSE PLAN SCHEDULE**

Name of the faculty	RAHUL C G
Designation	ASSISTANT PROFESSOR
Faculty department name	MECHANICAL ENGINEERING
Name of the course with course code	MET 308: COMPREHENSIVE COURSE WORK
Department to which this course is offered	MECHANICAL ENGINEERING
Semester	SIXTH
Academic Year	2022-2023

#### 1. COURSE OVERVIEW:

This course provides a chance to students to strengthen foundational knowledge in Mechanical Engineering

#### 2. COURSE OBJECTIVES:

To ensure that the students have firmly grasped the foundational knowledge in Mechanical Engineering familiar enough with the technological concepts. It provides an opportunity for the students to demonstrate their knowledge in various Mechanical Engineering subjects.

#### 3. PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES

#### I. PROGRAM OUTCOMES

- ENGINEERING KNOWLEDGE
- PROBLEM ANALYSIS
- DESIGN / DEVELOPMENT OF SOLUTION
- CONDUCT INVESTIGATION OF COMPLEX PROBLEMS
- MODERN TOOL USAGE
- THE ENGINEER AND SOCIETY
- ENVIORNMENT AND SUSTAINABILITY
- ETHICS
- INDIVIDUAL AND TEAM WORK
- COMUNICATION
- PROJECT MANAGEMENT AND FINANCE
- LIFE LONG LEARNING

#### II. PROGRAM SPECIFIC OUTCOME

- PSO 1 Develop and implement new ideas on product design and development with the help of CAD/CAM tools while ensuring best manufacturing practices
- PSO 2 Able to integrate and apply knowledge in the solution of interdisciplinary engineering problems.

#### 4. COURSE OUTCOME

CO 1: Learn to prepare for a competitive examination

CO 2: Comprehend the questions in Mechanical Engineering field and answer them with confidence

CO 3: Communicate effectively with faculty in scholarly environments

**CO 4**: Analyze the comprehensive knowledge gained in basic courses in the field of Mechanical Engineering.

#### 5. COURSE MAPPING

	PO	PSO	PSO											
	1		3	4	3	0	/	0	9	10	11	12	1	
CO1	H	M										M		
CO2	Н	M										M		
CO3	Н	M										M		
CO4	M	Н										M		

#### 6. SYLLABUS

#### MODULE 1

Fluids and continuum, Physical properties of fluids, Newton's law of viscosity. Ideal and real fluids, Newtonian and non-Newtonian fluids. Fluid Statics- Pressure-density-height relationship, manometers, pressure on plane and curved surfaces, center of pressure, buoyancy, stability of immersed and floating bodies Kinematics of fluid flow: Eulerian and Lagrangian approaches, classification of fluid flow, stream lines, path lines, streak lines, stream tubes, , stream function and potential function Equations of fluid dynamics: Differential equations of mass, energy and momentum (Euler's equation), Bernoulli's equation, Pipe Flow: Viscous flow: shear stress and velocity distribution in a pipe Hagen Poiseuille equation. Darcy-Weisbach equation.

#### **MODULE 2**

Development of atomic structure - Primary bonds: - characteristics of covalent, ionic and metallic bond - properties based on atomic bonding Crystallography: - SC, BCC, FCC, HCP structures, APF, Miller Indices: - crystal plane and direction - Modes of plastic deformation: - Slip and twinning Classification of crystal imperfections - forest of dislocation, role of surface defects on crack initiation- Burgers vector -Frank Read source - Correlation of dislocation density with strength and nano concept - high and low angle grain boundaries- driving force for grain growth and applications Phase diagrams: - need of alloying - classification of alloys - Hume Rothery's rule - equilibrium diagram of common types of binary systems: five types - Coring - lever rule and Gibb's phase rule - Reactions- Detailed discussion on Iron-Carbon equilibrium diagram with micro structure and properties -Heat treatment: - TTT, CCT diagram, applications - Tempering- Hardenability, Jominy end quench test, applications- Surface hardening methods.

#### **MODULE 3**

Basic Thermodynamic Concepts Macroscopic and Microscopic viewpoints, Concept of Continuum, Thermodynamic System and Control Volume, Surrounding, Boundaries, Types of Systems, Universe, Thermodynamic properties, Process, Cycle, Thermodynamic Equilibrium, Quasi – static Process, State, Point and Path function. Zeroth Law of Thermodynamics, Measurement of Temperature, reference Points, Temperature Scales. First law of Thermodynamics - First law applied to Non flow and flow Process- SFEE Second Law of Thermodynamics, Kelvin-Planck and Clausius Statements, Equivalence of two statements Entropy- Entropy changes in various thermodynamic processes, principle of increase of entropy and its applications, Available Energy, Availability and Irreversibility- Second law efficiency

#### **MODULE 4**

Casting:-Characteristics of sand - patterns- cores- -chaplets- simple problems- solidification of metals and Chvorinov's rule - Elements of gating system- risering -chills Welding:-welding metallurgy-heat affected zone- grain size and hardness- stress reliving- joint quality -heat treatment of welded joints - weldability - destructive and non destructive tests of welded joints Thermit welding, friction welding - Resistance welding, Arc Welding, Oxyacetyline welding Rolling:- principles - types of rolls and rolling mills - mechanics of flat rolling-Defects-vibration and chatter - flat rolling -miscellaneous rolling process Forging: methods analysis, applications, die forging, defects in forging

#### **MODULE 5**

Introduction to kinematics and mechanisms - various mechanisms, kinematic diagrams, degree of freedom- Grashof's criterion, inversions, coupler curves mechanical advantage, transmission angle. straight line mechanisms exact, approximate. Displacement, velocity analysis— relative motion - relative velocity. Instantaneous centre -Kennedy's theorem. Acceleration analysis-Relative acceleration - Coriolis acceleration - graphical and analytical methods. Cams - classification of cam and followers - displacement diagrams, velocity and acceleration analysis of SHM, uniform velocity, uniform acceleration, cycloidal motion Graphical cam profile synthesis, pressure angle.

#### 7. TEACHING PLAN

		MOI	DULE 1	183.8	145.4	
SI No	Topic	Hrs	Mode of Delivery	Planned Date	Actual Date	Course Outcome Number
1	Fluids and continuum, Physical properties of fluids, Newton's law of viscosity. Ideal and real fluids, Newtonian and non-Newtonian fluids. Fluid Statics-Pressure-density-height relationship, manometers, pressure on plane and curved surfaces,	3	LECTURE	10/02/23 14/02/23	09/02/23 10/02/23	COI
2	Center of pressure, buoyancy, stability of immersed and floating bodies Kinematics of fluid flow: Eulerian and Lagrangian approaches, classification of fluid flow, stream lines, path lines, stream function and potential function Equations of fluid dynamics:	3	LECTURE	17/02/23 21/02/23	21/02/23 2 8/2/23	COI
3	Differential equations of mass, energy and momentum (Euler's equation), Bernoulli's equation, Pipe Flow: Viscous flow: shear stress and velocity distribution in a pipe Hagen Poiseuille equation.  Darcy-Weisbach equation	3	LECTURE	24/02/23 28/02/23	8/3/23	COI
	30.0	MOI	OULE 2	-		
4	Development of atomic structure - Primary bonds:characteristics of covalent, ionic and metallic bond - properties based on atomic bonding Crystallography: - SC, BCC, FCC, HCP structures, APF, Miller Indices: - crystal plane and direction - Modes of plastic deformation: -	3	LECTURE	03/03/23 07/03/23	31/423	COII
5	Slip and twinning Classification of crystal imperfections - forest of dislocation, Role of surface defects on crack initiation-Burgers vector -Frank Read source - Correlation of dislocation density with strength	3	LECTURE	10/03/23 14/03/23	4/3/22	СОП

	and nano concept - high and low angle grain boundaries— driving force for grain growth and applications Phase diagrams: -					
6	need of alloying - classification of alloys - Hume Rothery's rule — equilibrium diagram of common types of binary systems: five types - Coring - lever rule and Gibb's phase rule - Reactions- Detailed discussion on Iron-Carbon equilibrium diagram with micro structure and properties -Heat treatment: - TTT, CCT diagram, applications - Tempering- Hardenability, Jominy end quench test, applications- Surface hardening methods.	3	LECTURE	17/03/23 21/03/23	11/4/27	соп
	* 1	MOL	ULE 3			
7	Basic Thermodynamic Concepts Macroscopic and Microscopic viewpoints, Concept of Continuum, Thermodynamic System and Control Volume, Surrounding, Boundaries, Types of Systems, Universe, Thermodynamic properties, Process, Cycle, Thermodynamic Equilibrium, Quasi – static Process, State, Point and Path function. Zeroth Law of Thermodynamics, Measurement of Temperature, reference Points, Temperature Scales.	3	LECTURE	24/03/23 28/03/23	18/4/22	CO III
8	First law of Thermodynamics - First law applied to Non flow and flow Process- SFEE Second Law of Thermodynamics, Kelvin-Planck and Clausius Statements, Equivalence of two statements Entropy- Entropy changes in various thermodynamic processes, principle of increase of entropy and its applications, Available Energy, Availability and Irreversibility- Second law efficiency	3	LECTURE	31/03/23 04/04/23	9/6/23 9/6/23	CO Ⅲ
		MOL	OULE 4			7.3
9	Casting:-Characteristics of sand - patterns- coreschaplets- simple problems- solidification	3	LECTURE	11/04/23 18/04/23	13/6/23	COIV

	of metals and Chvorinov's rule - Elements of gating system- risering -chills Welding:- welding metallurgy-heat affected zone- grain size and hardness- stress reliving- joint quality -heat treatment of welded joints		2			
10	Weldability - destructive and non destructive tests of welded joints Thermit welding, friction welding - Resistance welding, Arc Welding, Oxyacetyline welding Rolling:- principles - types of rolls and rolling mills - mechanics of flat rolling-Defects-vibration and chatter - flat rolling -miscellaneous rolling process Forging: methods analysis, applications, die forging, defects in forging	3	LECTURE	25/04/23 02/05/23	16/6/23	COIV
		MOD	ULE 5			
11	Introduction to kinematics and mechanisms - various mechanisms, kinematic diagrams, degree of freedom-Grashof's criterion, inversions, coupler curves mechanical advantage, transmission angle. straight line mechanisms exact, approximate. Displacement, velocity analysis— relative motion - relative velocity. Instantaneous centre -Kennedy's theorem.	3	LECTURE	05/05/23	20/0/23	COV
12	Acceleration analysis- Relative acceleration - Coriolis acceleration - graphical and analytical methods. Cams - classification of cam and followers - displacement diagrams, velocity and acceleration analysis of SHM, uniform velocity, uniform acceleration, cycloidal motion Graphical cam profile synthesis, pressure angle.	3	LECTURE	09/05/23	23/6/23	cov

MODE OF DELIVERY: LECTURE / TUTORIAL / ASSIGNMENT / PRACTICAL

8. Grading Methods

Module	Series Test	Assignment	Class Test	Quiz	Tutorial
1					
2			/		
3					
4			/		
5					

- 9. Gaps in the syllabus: NIL
- 10. Content Beyond Syllabus: NIL
- 11. Subject History
  - ✓ Year Of Introduction of the subject 2019
  - ✓ Faculty Handled Just before this time Mx. Divyathej. M.V.
  - ✓ Pass Percentage during last three years 60%
  - √ Target Pass Percentage 80%
- 12. Any other important matter to be brought into consideration:

Manual Prepared by:

Mr. Rahul C G Assistant Professor

Mechanical Engineering Department

Approved by:

Mr. Jacob Thomas Assistant Professor

Mechanical Engineering Department

Dated signature of faculty member

Dated signature of Module Coordinator

Dated signature of HOD



# SREE NARAYANA GURU

#### CCW MOCK TEST

1.

In a static fluid

- (a) resistance to shear stress is small
- (b) fluid pressure is zero
- (c) linear deformation is small
- (d) only normal stresses can exist
- (e) viscosity is nil.

2.

A fluid is said to be ideal, if it is

- (a) incompressible
- (b) inviscous
- (c) viscous and incompressible
- (d) inviscous and compressible
- (e) inviscous and incompressible.

Density of water is maximum at

- (a) 0°C
- (b) 0°K
- (c) 4°C
- (d) 100°C
- (e) 20°C.

Property of a fluid by which its own molecules are attracted is called

- (a) adhesion
- (b) cohesion
- (c) viscosity
- (d) compressibility
- (e) surface tension.

5

Mercury does not wet glass. This is due to property of liquid known as

- (a) adhesion
- (b) cohesion
- (c) surface tension
- (d) viscosity
- (e) compressibility.

(a) compressibility

The property of a fluid which enables it to resist tensile stress is known as

- (b) surface tension
- (c) cohesion
- (d) adhesion
- (e) viscosity.

7.

When the flow parameters at any given instant remain same at every point, then flow is said

- (a) quasi static
- (b) steady state
- (c) laminar
- (d) uniform
- (e) static.

8.

The normal stress in a fluid will be constant in all directions at a point only if

- (a) it is incompressible
- (b) it has uniform viscosity
- (c) it has zero viscosity
- (d) it is frictionless
- (e) it is at rest.

The tendency of a liquid surface to contract is due to the following property

- (a) cohesion
- (b) adhesion
- (c) viscosity
- (d) surface tension
- (e) elasticity.

Viscosity of water in comparison to mercury is

- (a) higher
- (b) lower
- (c) same
- (d) higher/lower depending on temperature
- (e) unpredictable.

The bulk modulus of elasticity

- (a) has the dimensions of 1/pressure
- (b) increases with pressure
- (c) is large when fluid is more compressible
- (d) is independent of pressure and viscosity
- (e) is directly proportional to flow.

A balloon lifting in air follows the following prin-

- (a) law of gravitation
- (b) Archimedes principle (c) principle of buoyancy (d) all of the above
- (e) continuity equation.

13.

The increase of temperature results in

- (a) increase in viscosity of gas
- (b) increase in viscosity of liquid
- (c) decrease in viscosity of gas
- (d) decrease in viscosity of liquid
- (e) (a) and (d) above.

Units of surface tension are

- (a) energy/unit area
- (b) distance
- (c) both of the above
- (d) it has no units
- (e) none of the above.

15.

Choose the correct relationship

- (a) specific gravity = gravity × density
- (b) dynamic viscosity = kinematic viscosity × density
- (c) gravity = specific gravity × density
- (d) kinematic viscosity
  - = dynamic viscosity × density
- (e) hydrostatic force = surface tension × gravity.

#### 16.

For manometer, a better liquid combination is one

- (a) higher surface tension
- (b) lower surface tension
- (c) surface tension is no criterion
- (d) high density and viscosity
- (e) low density and viscosity.

#### 17.

Dimensions of surface tension are

- (a)  $M^{1}L^{0}T^{-2}$
- (b)  $M^1L^0T^{-1}$
- (c)  $M^1L^1T^{-2}$
- (d)  $M^1L^2T^{-2}$
- (e)  $M^1L^0T^1$ .

#### 18.

The units of viscosity are

- (a) metres<sup>2</sup> per sec
- (b) kg sec/metre2
- (c) Newton-sec per metre<sup>2</sup>
- (d) Newton-sec2 per metre
- (e) None of the above.
- 19

Kinematic viscosity is dependent upon

- (a) pressure
- (b) distance

(c) level

- (d) flow
- (e) density.

#### 20.

Units of surface tension are

- (a) energy/unit area
- (b) distance
- (c) both of the above
- (d) it has no units
- (e) none of the above.

#### 21.

The property of fluid by virtue of which it offers re sistance to shear is called

- (a) -urface tension
- (b) adhesion
- (c. cohesion
- (d) viscosity
- (e) all of the above.

Specific weight of sea water is more that of pure water because it contains

- (a) dissolved air
- (b) dissolved salt
- (c) suspended matter
- (d) all of the above
- (e) heavy water.

#### 23.

The point in the immersed body through which the resultant pressure of the liquid may be taken to act is known as

- (a) meta centre
- (b) centre of pressure
- (c) centre of buoyancy
- (d) centre of gravity
- (e) none of the above.

#### 24.

The resultant upward pressure of a fluid on a floating body is equal to the weight of the fluid displaced by the body. This definition is according to

- (a) Buovancy
- (b) Equilibrium of a floating body
- (c) Archimedes' principle
- (d) Bernoulli's theorem
- (e) Metacentric principle.

#### 25.

The resultant upward pressure of the fluid on an immersed body is called

- (a) upthrust
- (b) buoyancy
- (c) centre of pressure
- (d) all the above are correct
- (e) none of above is correct.

#### 26.

The centre of gravity of the volume of the liquid displaced by an immersed body is called

- (a) meta-centre
- (b) centre of pressure
- (c) centre of buoyancy
- (d) centre of gravity
- (e) none of the above.

#### 27.

The angle of contact in case of a liquid depends upon

- (a) the nature of the liquid and the solid
- (b) the material which exists above the free surface of the liquid
- (c) both of the above
- (d) any one of the above
- (e) none of the above.

#### 28.

Free surface of a liquid behaves like a sheet and tends to contract to smallest possible area due to the

- (a) force of adhesion
- (b) force of cohesion
- (c) force of friction
- (d) force of diffusion
- (e) none of the above.

The angle of contact in case of a liquid depends upon

- (a) the nature of the liquid and the solid
- (b) the material which exists above the free surface of the liquid
- (c) both of the above
- (d) any one of the above
- (e) none of the above.

The property by virtue of which a liquid opposes relative motion between its different layers is called

- (a) surface tension
- (b) co-efficient of viscosity
- (c) viscosity
- (e) cohesion.

#### 31.

The process of diffusion of one liquid into the other through a semi-permeable membrane is called

- (a) viscosity
- (b) osmosis

(d) osmosis

- (c) surface tension
- (d) cohesion
- (e) diffusivity.

32.

The units of dynamic or absolute viscosity are

- (a) metres<sup>2</sup> per sec
- (b) kg sec/metre
- (c) Newton-sec per metre<sup>2</sup>
- (d) Newton-sec<sup>2</sup> per metre
- (e) none of the above.

33.

The dimensions of coefficient of viscosity are

- (a)  $M^1L^{-1}T^{-1}$
- (b)  $M^{-1}L^{-1}T^{-1}$
- (c)  $M^1L^1T^{-1}$
- $(d) M^{-1}L^{1}T^{1}$
- (e)  $M^1L^{-1}T^1$ .

34.

The rise or depression of liquid in a tube due to su face tension with increase in size of tube will

- (a) increase
- (b) remain unaffected
- (c) may increase or decrease depending on tl characteristics of liquid
- (d) decrease
- (e) unpredictable.

35.

Liquids transmit pressure equally in all the dire tions. This is according to

- (a) Boyle's law
- (b) Archimedes principle
- (c) Pascal's law
- (d) Newton's formula
- (e) Chezy's equation.

Capillary action is due to the

- (a) surface tension
- (b) cohesion of the liquid
- (c) adhesion of the liquid molecules and the molecules on the surface of a solid
- (d) all of the above
- (e) none of the above.

37.

The rise or fall of head 'h' in a capillary tube of diameter 'd' and liquid surface tension ' o' and specific weight 'w' is equal to

- $4\sigma$ wd
- (c) 4wd
- (e) 4d wo

38.

Newton's law of viscosity is a relationship between

- (a) shear stress and the rate of angular distortion
- (b) shear stress and viscosity
- (c) shear stress, velocity and viscosity
- (d) pressure, velocity and viscosity
- (e) shear stress, pressure and rate of angular distortion.

39.

The atmospheric pressure with rise in altitude decreases

- (a) linearly
- (b) first slowly and then steeply
- (c) first steeply and then gradually
- (d) unpredictable
- (e) none of the above.

40.

Mercury is often used in barometer because

- (a) it is the best liquid
- (b) the height of barometer will be less
- (c) its vapour pressure is so low that it may be neglected
- (d) both (b) and (c)
- (e) it moves easily.

41.

Barometer is used to measure

- (a) pressure in pipes, channels etc.
- (b) atmospheric pressure
- (c) very low pressure
- (d) difference of pressure between two points
- (e) rain level.

42.

Which of the following instrument can be used for measuring speed of an aeroplane?

- (a) Venturimeter
- (b) Orifice plate
- (c) hot wire anemometer (d) rotameter
- (e) pitot tube.

43.

Piezometer is used to measure

- (a) pressure in pipe, channels etc.
- (b) atmospheric pressure
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- (d) difference of pressure between two points
- (e) flow.

44

Which of the following instruments is used to measure flow on the application of Bernoulli's theorem?

- (a) Venturimeter
- (b) Orifice plate
- (c) nozzle
- (d) pitot tube
- (e) all of the above.

45.

The speed of sound in a ideal gas varies directly as

- (a) pressure
- (b) temperature
- (c) density
- (d) modulus of elasticity
- (e) absolute temperature.



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & KANNUR

### **CCW MOCK 1 ANSWER KEY**

1D	2 E	3C	4B	5C	6C	7D	8E	9D	10A	11B	12D
13D	14C	15B	16A	17A	18B	19E	20C	21D	22D	23B	24C
25B	26C	27C	28B	29C	30C	31B	32C	33A	34D	35C	36D
37A	38A	39B	40D	41B	42E	43C	44E	45E			

Ashishik Roll. No: 2.



## SREE NARAYANA GURU COLLEGE OF ENGINEERING

#### CCW MOCK TEST 1

In a static fluid

- (a) resistance to shear stress is small
- (b) fluid pressure is zero
- (c) linear deformation is small
- (d) only normal stresses can exist
- (e) viscosity is nil.

2.

A fluid is said to be ideal, if it is

- (a) incompressible
- (b) inviscous
- (c) viscous and incompressible
- (d) inviscous and compressible
- (e) inviscous and incompressible.

Density of water is maximum at

- (a) 0°C
- (b),0°K
- (c) 4°C
- (e) 20°C.

Property of a fluid by which its own molecules are attracted is called

- (a) adhesion
- (b) cohesion
- (c) viscosity
- (d) compressibility
- (e) surface tension.

5.

Mercury does not wet glass. This is due to property of liquid known as

- (b) cohesion (a) adhesion
- (c) surface tension
- (d) viscosity
- (e) compressibility.

The property of a fluid which enables it to resist tensile stress is known as

- (a) compressibility
- (b) surface tension
- (c) cohesion
- (d) adhesion
- (e) viscosity.

7.

When the flow parameters at any given instant remain same at every point, then flow is said

- (a) quasi static
- (b) steady state
- (e) laminar
- (d) uniform
- (e) static.

8.

8. The normal stress in a fluid will be constant in all directions at a point only if

- (a) it is incompressible
- (b) it has uniform viscosity
- (c) it has zero viscosity
- (d) it is frictionless
- (e) it is at rest.

9.

The tendency of a liquid surface to contract is due to the following property

- (a) cohesion
- (b) adhesion
- (c) viscosity
- (d) surface tension
- (e) elasticity.

Viscosity of water in comparison to mercury is

- higher
- (b) lower
- (c) same
- (d) higher/lower depending on temperature
- (e) unpredictable.

The bulk modulus of elasticity

- (a) has the dimensions of 1/pressure
- (b) increases with pressure
- (c) is large when fluid is more compressible
- (d) is independent of pressure and viscosity
- (e) is directly proportional to flow.

12.

A balloon lifting in air follows the following principle

- (a) law of gravitation
- (b) Archimedes principle
- (c) principle of buoyancy (d) all of the above
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The increase of temperature results in

- (a) increase in viscosity of gas
- (b) increase in viscosity of liquid
- (c) decrease in viscosity of gas
- (d) decrease in viscosity of liquid
- (e) (a) and (d) above.

14.

Units of surface tension are

- energy/unit area
- (b) distance
- (c) both of the above
- (d) it has no units
- none of the above.

Notwon's per metel

- Choose the correct relationship
- (a) specific gravity = gravity × density
- (b) dynamic viscosity = kinematic viscosity × density
- (c) gravity = specific gravity × density
- (d) kinematic viscosity
  - = dynamic viscosity × density
- (e) hydrostatic force = surface tension × gravity.

For manometer, a better liquid combination is one (a) higher surface tension (b) lower surface tension (c) surface tension is no criterion (d) high density and viscosity (e) low density and viscosity.

Dimensions of surface tension are

(a)  $M^1L^0T^{-2}$ 

(b)  $M^1L^0T^{-1}$ 

(c) M1L1T-2

(d)  $M^1L^2T^{-2}$ 

(e)  $M^1L^0T^1$ .

18.

The units of viscosity are

(a) metres2 per sec

(b) kg sec/metre2

(c) Newton-sec per metre<sup>2</sup>

(d) Newton-sec<sup>2</sup> per metre

(e) None of the above.

Kinematic viscosity is dependent upon

(a) pressure

(b) distance

(c) level

(d) flow

(e) density.

20.

Units of surface tension are

(a) energy/unit area

(c) both of the above

(d) it has no units

(e) none of the above.

21.

The property of fluid by virtue of which it offers re sistance to shear is called

(a) rurface tension

(b) adhesion

(c) cohesion

(d) viscosity

(e) all of the above.

22

Specific weight of sea water is more that of pure water because it contains

(a) dissolved air

(b) dissolved salt

(c) suspended matter

(d) all of the above

(e) heavy water.

23.

The point in the immersed body through which the resultant pressure of the liquid may be taken to act

is known as

(a) meta centre

(b) centre of pressure

(c) centre of buoyancy

(d) centre of gravity

(e) none of the above.

The resultant upward pressure of a fluid on a floating body is equal to the weight of the fluid displaced by the body. This definition is according to

(a) Buoyancy

(b) Equilibrium of a floating body

(c) Archimedes' principle

(d) Bernoulli's theorem

(e) Metacentric principle.

25.

The resultant upward pressure of the fluid on an immersed body is called

(a) upthrust

(b) buoyancy

(c) centre of pressure

(d) all the above are correct

(e) none of above is correct.

26.

The centre of gravity of the volume of the liquid displaced by an immersed body is called

(a) meta-centre

(b) centre of pressure

to centre of buoyancy

(d) centre of gravity

(e) none of the above.

27.

The angle of contact in case of a liquid depends upon

(a) the nature of the liquid and the solid

(b) the material which exists above the free surface of the liquid

(c) both of the above

(d) any one of the above

(e) none of the above.

28.

Free surface of a liquid behaves like a sheet and tends to contract to smallest possible area due to the

(a) force of adhesion

force of cohesion

(c) force of friction

(d) force of diffusion

(e) none of the above.

The angle of contact in case of a liquid depends upon (a) the nature of the liquid and the solid

(b) the material which exists above the free surface of the liquid

(c) both of the above

(d) any one of the above

(e) none of the above.

The property by virtue of which a liquid opposes relative motion between its different layers is called

(a) surface tension

(b) co-efficient of viscosity

(c) viscosity

(d) osmosis

(e) cohesion.

31.

The process of diffusion of one liquid into the other through a semi-permeable membrane is called

(a) viscosity

(b) osmosis

(c) surface tension

(d) cohesion

(e) diffusivity.

The units of dynamic or absolute viscosity are

- (a) metres2 per sec
- (b) kg sec/metre
- (c) Newton-sec per metre2
- (d) Newton-sec<sup>2</sup> per metre
- (e) none of the above.

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- $(a) M^1L^{-1}T^{-1}$
- (b)  $M^{-1}L^{-1}T^{-1}$
- (c)  $M^1L^1T^{-1}$
- $(d) M^{-1}L^{1}T^{1}$
- (e)  $M^1L^{-1}T^1$

34.

The rise or depression of liquid in a tube due to su face tension with increase in size of tube will

- (a) increase
- (b) remain unaffected
- (c) may increase or decrease depending on the characteristics of liquid
- (d) decrease
  - (e) unpredictable.

35.

Liquids transmit pressure equally in all the dire tions. This is according to

- (a) Boyle's law
- (b) Archimedes principle
- (c) Pascal's law
- (d) Newton's formula
- (e) Chezy's equation.

Capillary action is due to the

- (a) surface tension
- (b) cohesion of the liquid
- (c) adhesion of the liquid molecules and the molecules on the surface of a solid
- (d) all of the above
- (e) none of the above.

37.

The rise or fall of head 'h' in a capillary tube of diameter 'd' and liquid surface tension ' o' and specific weight 'w' is equal to

- 4σ wd
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Newton's law of viscosity is a relationship between

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The atmospheric pressure with rise in altitude decreases

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The speed of sound in a ideal gas varies directly as

- (a) pressure
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- (c) density
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#### SNC20ME003



## SREE NARAYANA GURU OF ENGINEERING

#### CCW MOCK TEST

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- (c) 4°C ~
- (d) 100°C
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- (a) adhesion
- (b) cohesion
- (c) viscosity
- (d) compressibility
- (e) surface tension. ~

5

Mercury does not wet glass. This is due to property of liquid known as

- (b) cohesion
- (a) adhesion (c) surface tension
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(a) compressibility

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Units of surface tension are

- (a) energy/unit area
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Choose the correct relationship

- (a) specific gravity = gravity × density
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16. 24. For manometer, a better liquid combination is one The resultant upward pressure of a fluid on a floating body is equal to the weight of the fluid displaced by the body. This definition is according to (a) higher surface tension (a) Buoyancy (b) lower surface tension (b) Equilibrium of a floating body (c) surface tension is no criterion (c) Archimedes' principle (d) high density and viscosity (d) Bernoulli's theorem (e) low density and viscosity. (e) Metacentric principle. 25. Dimensions of surface tension are The resultant upward pressure of the fluid on an (a)  $M^1L^0T^{-2}$ (b)  $M^1L^0T^{-1}$ immersed body is called (c)  $M^1L^1T^{-2}$ (d)  $M^1L^2T^{-2}$ (a) upthrust (b) buoyancy (e)  $M^1L^0T^1$ . (c) centre of pressure 18. (d) all the above are correct (e) none of above is correct. The units of viscosity are (a) metres<sup>2</sup> per sec (b) kg sec/metre2 26. (c) Newton-sec per metre<sup>2</sup> The centre of gravity of the volume of the liquid dis placed by an immersed body is called (d) Newton-sec<sup>2</sup> per metre (a) meta-centre (b) centre of pressure (e) None of the above. (c) centre of buoyancy (d) centre of gravity 19. (e) none of the above. Kinematic viscosity is dependent upon (b) distance (a) pressure The angle of contact in case of a liquid depends upon (c) level (d) flow (a) the nature of the liquid and the solid (e) density. (b) the material which exists above the free surface of the liquid \ 20. (c) both of the above (d) any one of the above Units of surface tension are (e) none of the above. (b) distance (a) energy/unit area (d) it has no units (c) both of the above Free surface of a liquid behaves like a sheet and tends (e) none of the above. to contract to smallest possible area due to the (a) force of adhesion (b) force of cohesion -21. (c) force of friction (d) force of diffusion The property of fluid by virtue of which it offers re (e) none of the above. sistance to shear is called (b) adhesion (a) -urface tension The angle of contact in case of a liquid depends upon (c) cohesion (d) viscosity (a) the nature of the liquid and the solid (e) all of the above. (b) the material which exists above the free surface of the liquid Specific weight of sea water is more that of pure (d) any one of the above (c) both of the above . water because it contains (e) none of the above. (b) dissolved salt (a) dissolved air 30. (d) all of the above (c) suspended matter The property by virtue of which a liquid opposes rela-(e) heavy water. tive motion between its different layers is called 23. (a) surface tension (b) co-efficient of viscosity The point in the immersed body through which the (c) viscosity (d) osmosis resultant pressure of the liquid may be taken to act (e) cohesion. is known as 31. (b) centre of pressure (a) meta centre \ (c) centre of buoyancy The process of diffusion of one liquid into the other (d) centre of gravity through a semi-permeable membrane is called (e) none of the above. (b) osmosis (a) viscosity (d) cohesion (c) surface tension

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The units of dynamic or absolute viscosity are 39. (a) metres<sup>2</sup> per sec (b) kg sec/metre ~ The atmospheric pressure with rise in altitude de-(c) Newton-sec per metre<sup>2</sup> (d) Newton-sec<sup>2</sup> per metre (a) linearly (e) none of the above. (b) first slowly and then steeply 33. (c) first steeply and then gradually (d) unpredictable The dimensions of coefficient of viscosity are (e) none of the above. (b)  $M^{-1}L^{-1}T^{-1}$ (a)  $M^1L^{-1}T^{-1}$ 40. (d)  $M^{-1}L^1T^1$ (c)  $M^1L^1T^{-1}$ Mercury is often used in barometer because (e)  $M^1L^{-1}T^1$ (a) it is the best liquid 34. (b) the height of barometer will be less The rise or depression of liquid in a tube due to su (c) its vapour pressure is so low that it may be face tension with increase in size of tube will neglected (a) increase (e) it moves easily. (d) both (b) and (c) (b) remain unaffected (c) may increase or decrease depending on tl 41. characteristics of liquid / Barometer is used to measure (a) pressure in pipes, channels etc. (d) decrease (e) unpredictable. (b) atmospheric pressure ~ 35. (c) very low pressure Liquids transmit pressure equally in all the dire (d) difference of pressure between two points tions. This is according to (e) rain level. (b) Archimedes principle (a) Boyle's law (c) Pascal's law (d) Newton's formula Which of the following instrument can be used for (e) Chezy's equation. measuring speed of an aeroplane? (b) Orifice plate Capillary action is due to the (a) Venturimeter (c) hot wire anemometer (d) rotameter (a) surface tension (b) cohesion of the liquid (c) adhesion of the liquid molecules and the (e) pitot tube. molecules on the surface of a solid 43. (d) all of the above ~ Piezometer is used to measure (e) none of the above. (a) pressure in pipe, channels etc. 37. (b) atmospheric pressure The rise or fall of head 'h' in a capillary tube of di-(c) very low pressures ameter 'd' and liquid surface tension ' o' and specific (d) difference of pressure between two points weight 'w' is equal to (e) flow. wd Which of the following instruments is used to measure flow on the application of Bernoulli's theorem? 4d (a) Venturimeter (b) Orifice plate wσ (c) nozzle (d) pitot tube 38. (e) all of the above. ~ Newton's law of viscosity is a relationship between (a) shear stress and the rate of angular distortion (b) shear stress and viscosity The speed of sound in a ideal gas varies directly as (c) shear stress, velocity and viscosity (d) pressure, velocity and viscosity ~ (a) pressure (b) temperature (e) shear stress, pressure and rate of angular (c) density (d) modulus of elasticity distortion. (e) absolute temperature.



## Mohammed Shael Abdul Safhar

#### SNC JOME 209



## SREE NARAYANA GURI COLLEGE OF ENGINEERING

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16. For manometer, a better liquid combination is one (a) higher surface tension (b) lower surface tension (c) surface tension is no criterion (d) high density and viscosity (e) low density and viscosity. Dimensions of surface tension are (a)  $M^1L^0T^{-2}$ (b)  $M^1L^0T^{-1}$ V (c)  $M^1L^1T^{-2}$  $(d) M^1L^2T^{-2}$ (e) M1L0T1. 18 The units of viscosity are (a) metres<sup>2</sup> per sec (b) kg sec/metre<sup>2</sup> (c) Newton-sec per metre<sup>2</sup> (d) Newton-sec<sup>2</sup> per metre (e) None of the above. 19. Kinematic viscosity is dependent upon (a) pressure (b) distance (c) level (e) density. 20. Units of surface tension are (a) energy/unit area (b) distance (c) both of the above (d) it has no units (e) none of the above. 21. The property of fluid by virtue of which it offers re sistance to shear is called (a) -urface tension (b) adhesion (c) cohesion (d) viscosity (e) all of the above. Specific weight of sea water is more that of pure water because it contains (a) dissolved air (b) dissolved salt (d) all of the above (c) suspended matter (e) heavy water. 23. The point in the immersed body through which the resultant pressure of the liquid may be taken to act is known as (a) meta centre

24. The resultant upward pressure of a fluid on a floating body is equal to the weight of the fluid displaced by the body. This definition is according to (a) Buoyancy (b) Equilibrium of a floating body (c) Archimedes' principle (d) Bernoulli's theorem (e) Metacentric principle. 25. The resultant upward pressure of the fluid on an immersed body is called (a) upthrust (b) buoyancy (c) centre of pressure (d) all the above are correct (e) none of above is correct. 26. The centre of gravity of the volume of the liquid dis placed by an immersed body is called (b) centre of pressure (a) meta-centre (d) centre of gravity (c) centre of buoyancy (e) none of the above. The angle of contact in case of a liquid depends upon (a) the nature of the liquid and the solid (b) the material which exists above the free surface of the liquid (c) both of the above (d) any one of the above (e) none of the above. 28. Free surface of a liquid behaves like a sheet and tends to contract to smallest possible area due to the (a) force of adhesion (b) force of cohesion (c) force of friction (d) force of diffusion (e) none of the above. 29. The angle of contact in case of a liquid depends upon (a) the nature of the liquid and the solid (b) the material which exists above the free surface of the liquid (e) both of the above (d) any one of the above (e) none of the above. 30.

The property by virtue of which a liquid opposes relative motion between its different layers is called (a) surface tension (b) co-efficient of viscosity

(c) viscosity

(d) osmosis

(e) cohesion.

31.

(b) centre of pressure

(d) centre of gravity

Jel centre of buoyancy

(e) none of the above.

The process of diffusion of one liquid into the other through a semi-permeable membrane is called (b) osmosis

(a) viscosity (c) surface tension

(d) cohesion

(e) diffusivity.

The units of dynamic or absolute viscosity are

- (a) metres<sup>2</sup> per sec
- (b) kg sec/metre
- (c) Newton-sec per metre<sup>2</sup>
- (d) Newton-sec<sup>2</sup> per metre
- (e) none of the above.

33.

The dimensions of coefficient of viscosity are

- (a)  $M^1L^{-1}T^{-1}$
- (b) M-1L-1T-1
- (c)  $M^1L^1T^{-1}$
- $(d) M^{-1}L^1T^1$
- (e)  $M^1L^{-1}T^1$ .

34.

The rise or depression of liquid in a tube due to su face tension with increase in size of tube will

- (a) increase
- (b) remain unaffected
- (c) may increase or decrease depending on the characteristics of liquid
- (d) decrease
- (e) unpredictable.

35.

Liquids transmit pressure equally in all the dire tions. This is according to

- (a) Boyle's law
- (b) Archimedes principle
- (e) Pascal's law
- (d) Newton's formula
- (e) Chezy's equation.

36.

Capillary action is due to the

- (a) surface tension
- (b) cohesion of the liquid
- (c) adhesion of the liquid molecules and the molecules on the surface of a solid
- (d) all of the above
- (e) none of the above.

37.

The rise or fall of head 'h' in a capillary tube of diameter 'd' and liquid surface tension ' o' and specific weight 'w' is equal to

38.

Newton's law of viscosity is a relationship between

- (a) shear stress and the rate of angular distortion
- (b) shear stress and viscosity
- (c) shear stress, velocity and viscosity
- (d) pressure, velocity and viscosity
- (e) shear stress, pressure and rate of angular distortion.

39.

The atmospheric pressure with rise in altitude de-

- (a) linearly
- (b) first slowly and then steeply
- (c) first steeply and then gradually
  - (d) unpredictable
  - (e) none of the above.

40.

Mercury is often used in barometer because

- (a) it is the best liquid
- (b) the height of barometer will be less
- (c) its vapour pressure is so low that it may be neglected
- (d) both (b) and (c)
- (e) it moves easily.

41.

Barometer is used to measure

- (a) pressure in pipes, channels etc.
- (b) atmospheric pressure
- (c) very low pressure
- (d) difference of pressure between two points
- (e) rain level.

42.

Which of the following instrument can be used for measuring speed of an aeroplane?

- (a) Venturimeter
- (b) Orifice plate
- (c) hot wire anemometer (d) rotameter
- (e) pitot tube.

43.

Piezometer is used to measure

- (a) pressure in pipe, channels etc.
- (b) atmospheric pressure
- (c) very low pressures
- (d) difference of pressure between two points
- (e) flow.

44.

Which of the following instruments is used to measure flow on the application of Bernoulli's theorem?

- (a) Venturimeter
  - (b) Orifice plate
- (c) nozzle
- (d) pitot tube
- (e) all of the above.

45.

The speed of sound in a ideal gas varies directly as

- (a) pressure
- (b) temperature
- (c) density
- (d) modulus of elasticity
- (e) absolute temperature.



# SREE NARAYANA GURU COLLEGE OF

# **ENGINEERING**

# **CCW MOCK TEST 2**

1.

Malleability of a material can be defined as (a) ability to undergo large permanent (a) mations in compression

(b) ability to recover its original form

(c) ability to undergo large permanent at mations in tension

(d) all of the above

(e) none of the above

2.

Mild steel belongs to the following category

(a) low carbon steel

(b) medium carbon steel

(e) high carbon steel

(d) alloy steel

(e) special steel.

The number of electrons in 1 cm<sup>3</sup> of metal would be of the order of

(a) 1010

3.

(b) 10<sup>16</sup>

(0) 102

(d) 1040

(c) 1052

4.

Points of arrest for iron correspond to

(a) stages at which allotropic forms change

(b) stages at which further heating does not increase temperature for some time

(c) stages at which properties do not change with increase in temperature

(d) there is nothing like points of arrest

(e) none of the above.

5.

A material is known as allotropic or polymorphic if

(a) has a fixed structure under all conditions

(b) exists in several crystal forms at different temperatures

(c) responds to heat treatment

(d) has its atoms distributed in a random pattern

(e) none of the above.

6.

Superconduction by metals is observed in the temperature range of

(a) below 10°K

(b) above 100°K

(c) around 0°C

(d) around 100°C

(e) above 1000°C.

7.

Gamma iron exits at following temperature

(a) room temperature

(b) near melting point

(c) between 1400°C and 1539°C

(d) between 910°C and 1400°C

(e) none of the above.

8.

Cast iron is characterised by minimum of follows %age of carbon

(a) 0.2%

(b) 0.8%

(c) 1.3%

(e) 6.3%.

(d) 2%

9.

Pick up wrong statement about wrought iron

(a) It contains carbon of the order of 0 to 0.25%

(b) It melts at 1535°C

(c) It is very soft and ductile

d) It can be easily forge welded

(e) It is made by adding suitable percentage of carbon to molten iron and subjecting the product to repeated hammering and rolling.

10.

An important property of malleable cast iron in comparison to grey cast iron is the high

(a) compressive strength

(b) ductility

(c) carbon content

(d) hardness

(e) surface finish.

11.

Annealing of white cast iron results in production of

(a) malleable iron

(b) nodular iron

(c) spheroidal iron

(d) grey iron

(e) none of the above.

Hardness of steel depends on

- (a) amount of carbon it contains
- (b) the shape and distribution of the carbides in iron
- (c) method of fabrication
- (d) contents of alloying elements
- (e) the quality of ore from which it is made.

# 13.

# Maximum percentage of carbon in ferrite is

- (a) 0.025%
- (b) 0.06%
- (e) 0.1%
- (d) 0.25%
- (e) 0.8%.

# 14.

The most effective inhibitor of grain growth, when added in small quantities is

- (a) carbon
- (b) vanadium
- (c) manganese
- (d) cobalt
- (e) copper.

# 15.

Machining properties of steel are improved by adding

- (a) sulphur, lead, phosphorous
- (b) silicon, aluminium, titanium
- (c) vanadium, aluminium
- (d) chromium, nickel
- (e) lubricants.

#### 16.

## Inconel is an alloy of

- (a) nickel, chromium and iron
- (b) nickel, copper
- (c) nickel, chromiun
- (d) nickel, zinc
- (e) nickel, lead.

# 17.

The loss of strength in compression with simultaneous gain in strength in tension due to overloading is known as

- (a) hysteresis
- (b) creep
- (c) visco elasticity
- (d) Boeschinger effect
- (e) inelasticity.

# 18.

The surface hardness of the following order is achieved by nitriding operation

- (a) 600 VPN
- (b) 1500 VPN
- (c) 1000 to 1100 VPN
- 2000 VPN.
- (d) 250 VPN

# 19.

# Hardness of martensite is about

(a) RC 65

(b) RC 48

(c) RC 57

(d) RC 80

(e) RC 32.

# 20.

# Hardness of lower bainite (tempered martensite) is

- (a) RC 65
- (b) RC 48
- (e) RC 57
- (e) RC 32.
- (d) RC 80

# 21.

# Which is false statement about normalising?

- Normalising is done to
- (a) refine grain structure
- (b) reduce segregation in casting (c) improve mechanical properties
- (d) induce stresses
- (e) relieve internal stresses.

# 22.

# Vanadium in high speed steels

- (a) promotes decarburisation
- (b) provides high hot hardness
- (c) forms very hard carbides and thus increases wear resistance
- (d) promotes retention of austenite
- (e) increases toughness.

#### 23.

#### Amorphous material is one

- (a) in which atoms align themselves in a geometric pattern upon solidification
- (b) in which there is no definite atomic structure and atoms exist in a random pattern just as in a
- (c) which is not attacked by phosphorous
- (d) which emits fumes on melting
- (e) none of the above.

### 24.

# Tungsten in steel

- (a) improves wear resistance, cutting ability and
- (b) refines grain size and produces less tendency to carburisation, improves corrosion and heat resistant properties
- (c) improves cutting ability and reduces hardensbility
- (d) gives ductility, toughness, tensile strength and anticorrosion properties
- (c) raises its melting point.

The hardness of steel increases if it contains

- (a) austenite
- (b) martensite
- (c) pearlite
- (d) cementite
- (e) all of the above.

26.

Which of the following laws is applicable for the behaviour of a perfect gas?

- (a) Boyle's law
- (b) Charles' law
- lei Gay-Lussac law
- (d) all of the above
- (e) Joule's law

27.

According to Charles' law for a perfect g

- if V is kept constant
- oth (a) and (b) above
- if T is kept constant

28.

According to Gay-Lussac law for a perfect gas, the absolute pressure of given mass varies directly as

- (a) temperature
- (b) absolute
- (c) absolute temperature, if volume is kept constant
- (d) volume, if temperature is kept constant
- (e) remains constant, if volume and temperature are kept constant.

General gas equation is

- (a) PV = nRT
- (b) PV = mRT
- (c)  $PV = \frac{1}{3}nRT$
- (e)  $C_a C_b \approx R/J$ .

30.

No liquid can exist as liquid at

- $(a) = 273^{\circ} K$
- (b) vacuum
- (c) zero pressure
- (e) in space.
- (d) centre of earth

31.

The ratio of two specific heats of air is equal to

- (a) 0.17
- (6) 0.24
- (c) 0.1
- (d) 1.41
- 0 2 71

32.

Which law states that the specific heat of a gas remains constant at all temperatures and pressures?

- (a) Charles' law
- (b) Joule's law
- (c) Regnault's law
- (d) Boyle's law
- (e) there is no such law.

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34.

- 43. Extensive property of a system is one whose value
  - (a) depends on the mass of the system, like volume
  - (b) does not depend on the mass of the system, like temperature, pressure, etc.
  - (c) is not dependent on the path followed but on the
  - (d) is dependent on the path followed and not on the
  - (e) is always constant.

35.

Work done in a free expansion process is

- (a) + ve
- (b) ve
- (c) zero
- (d) maximum
- (e) minimum.

36.

To convert volumetric analysis to gravimetric analysis, the relative volume of each constituent of the flue gases is

- (a) divided by its molecular weight
- (b) multiplied by its molecular weight
- (c) multiplied by its density
- (d) multiplied by its specific weight
- (e) divided by its specific weight.

Zeroth law of thermodynamics

- (a) deals with conversion of mass and energy
- (b) deals with reversibility and irreversibility of
- (c) states that if two systems are both in equilibrium with a third system, they are in thermal equilibrium with each other
- (d) deals with heat engines
- (e) does not exist.

# 38.

The basis for measuring thermodynamic property of temperature is given by

- (a) zeroth law of thermodynamics
- (b) first law of thermodynamics
- (c) second law of thermodynamics
- (d) third law of thermodynamics
- (e) Avogadro's hypothesis.

# 39

The more effective way of increasing efficiency of Carnot engine is to

- (a) increase higher temperature
- (b) decrease higher temperature
- (c) increase lower temperature
- (d) decrease lower temperature
- (e) keep lower temperature constant.

# 40.

For reversible adiabatic process, change in entropy

- (a) maximum
- (b) minimum
- (c) zero
- (e) negative.
- (d) unpredictable

# 41.

The work done in the expansion of a gas from volume  $V_1$  to  $V_2$  under constant pressure p is equal to  $\begin{array}{ll} (a) \ {\rm zero} & (b) \ p(V_2-V_1) \\ (c) \ p(V_2+V_1) & (d) \ p(V_2-V_1) \\ (e) \ p(V_1-V_2)V2. & \end{array}$ 

# 42.

An expansion process as per law pV = constant is

- (a) parabolic expansion (b) hyperbolic expansion

- (c) isentropic expansion (d) adiabatic expansion
- (e) free expansion.

## 43.

Under ideal conditions, isothermal, isobaric, isochoric and adiabatic processes are

- (a) static processes
- (b) dynamic processes
- (c) quasi-static processes

# 44

First law of thermodynamics

- (a) enables to determine change in internal energy to the system
- (b) does not help to predict whether the system will or not undergo a change
- (c) does not enable to determine change in entropy
- (d) provides relationship between heat, work and internal energy
- (e) all of the above.

# 45.

The temperature in a process in which work is done by expanding a gas under adiabatic condition will

- (a) increase
- (b) decrease
- (c) remain unchanged
- (d) decrease/increase depending on properties of gas
- (e) first increase and then decrease.

# 46.

In a polytropic process, heat rejected is given by

- (a)  $\frac{\gamma}{\gamma 1}$  × Work done on the system
- (b)  $\frac{\gamma n}{\gamma 1}$  × Work done on the system
- (c)  $\frac{\gamma n}{\gamma}$  × Work done on the system
- (d)  $\frac{\gamma n}{n}$  × Work done on the system
- (e) work done on the systems.

# 47.

Heat transfer during polytropic process is given by

- $(a) \; \frac{n-\gamma}{1-\gamma} C_{\nu} (T_2 T_1) \qquad (b) \; \frac{\gamma n}{\gamma 1} C_{\nu} (T_2 T_1)$
- $(c) \; \frac{\gamma n}{1 \gamma} C_v (T_2 T_1) \qquad (d) \; \frac{\gamma}{\gamma 1} C_v (T_2 T_1)$
- $(e) \; \frac{\gamma 1}{\gamma} C_v (T_2 T_1).$



# SREE NARAYANA GURU COLLEGE OF ENGINEERING

# **CCW MOCK 2 ANSWER KEY**

1A 2A 3C 4A 5B 6A 7D 8D 9B 10B 11A 12B 13A 14B 15A 16A 17D 18C 19A 20C 21D 22C 23B 24B 25B 26D 27B 28C 29B 30C 31D 32C 33C 34A 35C 36B 37C 38A 39D 40C 41B 42B 43C 44C 45B 46B 47B





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The number of electrons in 1 cm3 of metal would be of the order of

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∞(b) 1016

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ASHWIN JOHN SE ME SNC20MGDD3

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An expansion process as per law pV = constant is

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Under ideal conditions, isothermal, isobaric, isochoric and adiabatic processes are

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First law of thermodynamics

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- (a) increase
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- (d) decrease/increase depending on properties of gas

✓(b) decrease

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- (a)  $\frac{\gamma}{\gamma-1}$  × Work done on the system
- $\sqrt{(b)} \frac{\gamma n}{\gamma 1} \times \text{Work done on the system}$ 
  - (c)  $\frac{\gamma n}{\gamma}$  × Work done on the system
  - (d)  $\frac{\gamma n}{n}$  × Work done on the system
  - (e) work done on the systems.

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Heat transfer during polytropic process is given by

- (a)  $\frac{n-\gamma}{1-\gamma}C_{v}(T_{2}-T_{1})$   $\sqrt{(b)}\frac{\gamma-n}{\gamma-1}C_{v}(T_{2}-T_{1})$
- (c)  $\frac{\gamma n}{1 \gamma} C_v(T_2 T_1)$  (d)  $\frac{\gamma}{\gamma 1} C_v(T_2 T_1)$
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# SREE NARAYANA GURU

# COLLEGE OF **ENGINEERING**

# **CCW MOCK TEST 2**

1.

Malleability of a material can be defined as (a) ability to undergo large permanent to mations in compression

- (b) ability to recover its original form
- (c) ability to undergo large permanent mations in tension
- (d) all of the above
- (e) none of the ab

2.

Mild steel belongs to the following category

- a low carbon steel
- (b) medium carbon steel
- (e) high carbon steel
- (d) alloy steel
- (c) special steel.

3.

he number of electrons in 1 cm3 of metal would be of the order of

- (a) 1010
- (6) 1016
- (c) 1022
- (d) 1040
- e 1052

Points of arrest for iron correspond to

- stages at which allotropic forms change
- (b) stages at which further heating does not increase temperature for some time
- (or stages at which properties do not change with increase in temperature
- (d) there is nothing like points of arrest
- (e) none of the above.

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A material is known as allotropic or polymorphic if

- (a) has a fixed structure under all conditions
- (b) exists in several crystal forms at different temperatures
- (c) responds to heat treatment
- (d) has its atoms distributed in a random pattern
- (e) none of the above.

6.

Superconduction by metals is observed in the temperature range of

- below 10°K
- (b) above 100°K
- (c) around 0°C
- (d) around 100°C
- (e) above 1000°C.

7.

Gamma iron exits at following temperature

- (a) room temperature (b) near melting point
- (c) between 1400°C and 1539°C
- d between 910°C and 1400°C
- (e) none of the above.

8.

Cast iron is characterised by minimum of follows %age of carbon

- (a) 0.2%
- (b) 0.8%
- (c) 1.3%
- (d) 2%
- (e) 6.3%

9.

Pick up wrong statement about wrought iron

- a) It contains carbon of the order of 0 to 0.25%
- (b) It melts at 1535°C
- (c) It is very soft and ductile
- d) It can be easily forge welded
- (e) It is made by adding suitable percentage of carbon to molten iron and subjecting the product to repeated hammering and rolling.

10.

An important property of malleable cast iron in comparison to grey cast iron is the high

- (a) compressive strength
- (b) ductility
- (c) carbon content
- (d) hardness
- (e) surface finish.

11.

Annealing of white cast iron results in production of

- malleable iron
- (b) nodular iron
- (c) spheroidal iron
- (d) grey iron
- (e) none of the above.

Hardness of steel depends on (a) amount of carbon it contains

- (b) the shape and distribution of the carbides in iron
- (c) method of fabrication
- (d) contents of alloying elements
- (c) the quality of ore from which it is made.

13.

Maximum percentage of carbon in ferrite is

(4) 0.025%

(6) 0.06%

(c) 0.1%

(d) 0.25%

(e) 0.8%.

14.

The most effective inhibitor of grain growth, when added in small quantities is

a carbon

(b) vanadium

(c) manganese

(d) cobalt

(e) copper.

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Machining properties of steel are improved by adding

- o sulphur, lead, phosphorous
- (b) silicon, aluminium, titanium
- (c) vanadium, aluminium
- (d) chromium, nickel

(e) lubricants

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Inconel is an alloy of

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(d) nickel, zinc

(e) nickel, lead.

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The loss of strength in compression with simultaneous gain in strength in tension due to cloading is known as

a) hysteresis

(b) creep

(c) visco elasticity

d Boeschinger effect

inelasticity.

18.

The surface hardness of the following order is achieved by nitriding operation

WT600 VPN

(b) 1500 VPN

1000 to 1100 VPN

(e) 2000 VPN

(d) 250 VPN

19.

Hardness of martensite is about

WRC 65

(b) RC 48

C) RC 57

(d) RC 80

(e) RC 32.

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Hardness of lower bainite (tempered martensite) is

(b) RC 48

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(e) RC 32.

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21.

Which is false statement about normalising?

Normalising is done to

(a) refine grain structure

(b) reduce segregation in casting

(c) improve mechanical properties

(d) induce stresses

(e) relieve internal stresses.

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Vanadium in high speed steels

- (a) promotes decarburisation
- (b) provides high hot hardness
- forms very hard carbides and thus increases wear resistance
- (d) promotes retention of austenite
- (e) increases toughness.

23.

Amorphous material is one

(a) in which atoms align themselves in a geometric

pattern upon solidification

by in which there is no definite atomic structure and atoms exist in a random pattern just as in a

(c) which is not attacked by phosphorous

(d) which emits fumes on melting

(e) none of the above.

24.

Tungsten in steel

(a) improves wear resistance, cutting ability and

the frefines grain size and produces less tendency to carburisation, improves corrosion and heat resistant properties

(k) improves cutting ability and reduces

(d) gives ductility, toughness, tensile strength and anticorrosion properties

(e) raises its melting point.

1

- a) 0.17
- (b) 0.24 Jel 1.41

(b) martensite (a) austenite (d) cementite (c) pearlite

The hardness of steel increases if it contains

4101

31.

(e) all of the above.

32.

26.

Which of the following laws is applicable for the behaviour of a perfect gas?

- (a) Boyle's law
- (b) Charles' law
- (e) Gay-Lussac law
- (d'all of the above
- (e) Joule's law

27.

33.

- According to Charles' law for a perfect gas
- if V is kept constant
- , if P is kept constant
- (c) both (a) and (b) above
- if T is kept constant

28.

According to Gay-Lussac law for a perfect gas, the absolute pressure of given mass varies directly as (a) temperature (b) absolute

- wabsolute temperature, if volume is kept constant
- (d) volume, if temperature is kept constant
- (e) remains constant, if volume and temperature are kept constant.

29.

General gas equation is

(b) PV = mRT

(c) 
$$PV = \frac{1}{2}nRT$$

(d)  $PV^n = C$ 

(e) 
$$C_{*} = C_{*} = R/J$$
.

30.

No liquid can exist as liquid at

- (a) 273°K
- (b) vacuum
- Je zero pressure
- (d) centre of earth

(e) in space.

(c) Charles' law (b) Joule's law Regnault's law (d) Boyle's law (e) there is no such law.

Which law states that the specific heat of a gas remains constant at all temperatures and pressures?

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34.

- 43. Extensive property of a system is one whose value depends on the mass of the system, like volume
  - (h) does not depend on the mass of the system, like temperature, pressure, etc.
  - (c) is not dependent on the path followed but on the
  - (d) is dependent on the path followed and not on the state
  - (e) is always constant.

35.

Work done in a free expansion process is

- (a) + ve
- (b) ve
- zero
- (d) maximum
- (e) minimum

36.

To convert volumetric analysis to gravimetric analysis, the relative volume of each constituent of the flue gases is

- (a) divided by its molecular weight
- (b) multiplied by its molecular weight
- (c) multiplied by its density
- (d) multiplied by its specific weight
- (e) divided by its specific weight.

Zeroth law of thermodynamics

- (a) deals with conversion of mass and energy
- (b) deals with reversibility and irreversibility of process
- (c) states that if two systems are both in equilibrium with a third system, they are in thermal equilibrium with each other
- (d) deals with heat engines
- (e) does not exist.

38.

The basis for measuring thermodynamic property of temperature is given by

- in zeroth law of thermodynamics
- (b) first law of thermodynamics.
- (c) second law of thermodynamics
- (d) third law of thermodynamics
- (e) Avogadro's hypothesis.

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The more effective way of increasing efficiency of Carnot engine is to

- (a) increase higher temperature
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6.



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Mild steel belongs to the following category

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The number of electrons in 1 cm<sup>3</sup> of metal would be of the order of (a) 10<sup>16</sup> (b) 10<sup>16</sup> (cd) 10<sup>40</sup>

4.

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Tungsten in steel

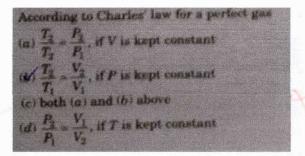
- (a) improves wear resistance, cutting ability and toughness
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The hardness	of steel	increases if it contains
(a) austenite		(b) martensite
(c) pearlite		(d) cementite

Which of the following laws is applicable for the behaviour of a perfect gas?

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According to Gay-Lussac law for a perfect gas, the absolute pressure of given mass varies directly as (a) temperature (b) absolute

a) absolute temperature, if volume is kept constant (d) volume, if temperature is kept constant

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General gas equation is 
$$PV = nRT$$
 (8)  $PV = mRT$  (9)  $PV = \frac{1}{3}nRT$  (d)  $PV^n = C$  (e)  $C_p - C_v = RhJ$ .

30.

No liquid can	exist as lic	quid a		
(a) 273°K		(b) v	acuum	
	re	(d) c	entre of	earth
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The ratio of two specific heats of air is equal to (6) 0.24 2 0.17 te 1 0:1

32.

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Which law states that the specific heat of a gas remains constant at all temperatures and pressures? (b) Joule's law (a) Charles' law & Regnault's law (d) Boyle's law (e) there is no such law.

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Work done in a free expansion process is (a) + ve (b) - ve le zero (d) maximum (e) minimum.

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To convert volumetric analysis to gravimetric analysis, the relative volume of each constituent of the flue gases is (a) divided by its molecular weight (w) multiplied by its molecular weight (c) multiplied by its density (d) multiplied by its specific weight (e) divided by its specific weight.

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- (c)  $\frac{\gamma n}{\gamma}$  × Work done on the system
- (d)  $\frac{\gamma n}{n}$  × Work done on the system
- (e) work done on the systems.

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Heat transfer during polytropic process is given by

- $(a)\frac{n-\gamma}{1-\gamma}C_v(T_2-T_1) \qquad (b)\frac{\gamma-n}{\gamma-1}C_v(T_2-T_1)$
- $(c) \ \frac{\gamma-n}{1-\gamma} C_v(T_2-T_1) \qquad (d) \ \frac{\gamma}{\gamma-1} C_v(T_2-T_1)$
- $(e) \ \frac{\gamma-1}{\gamma} C_v(T_2-T_1).$

Reg No.:	Name:

# APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Sixth Semester B.Tech Degree Examination June 2022 (2019 Scheme)

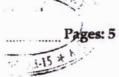
		C		Course Code: M COMPREHENSI			V	
Max. Ma	arks:		me	COMPREHENSI	VE	COURSE WOR	K	Duration: 1Hou
Instructions:		<ul> <li>(1) Each question carries one mark. No negative marks for wrong answers</li> <li>(2) Total number of questions: 50</li> <li>(3) All questions are to be answered. Each question will be followed by 4 possible answers of which only ONE is correct.</li> <li>(4) If more than one option is chosen, it will not be considered for valuation.</li> </ul>						
1.	Wh	ich one of the follow	ing	mechanisms represen	its ar	inversion of single	e slide	er crank chain?
	a)	Elliptical trammel	b)	Oldham's coupling	c)	Whitworth quick return mechanism	d)	Pantograph
2.	A p	lanar mechanism has	s 10	links and 12 joints. T	he d	egree of freedom o	f the 1	mechanism is
	a)	1	b)	3	c)	2	d)	4
3.	Nur	nber of instantaneou	s cei	ntres of rotation for a	6-lii	nk mechanism are		
	a)	4	b)	6	c)	12	d)	15
4.	Pres	ssure angle of a cam	is di	irectly proportional to	)			
	a)	Pitch circle diameter		Prime circle diameter	c)	Lift of cam	d)	Base circle diameter
5.				S following cycloida			olling	g circle will be
	a)	S*2π	b)	S/2π	c)	2π/S	d)	2π+S
6.	Wh	ich of the following	mec	hanism is an exact str	aigh	t line motion mech	anism	1?
	a)	Watt's mechanism	b)	Robert's mechanism	c)	Peaucellier mechanism	d)	All of these
7.	Trai	nsmission angle is th	e an	gle between the				
	a)	Output link and frame	b)	Output link and coupler	c)	Input link and frame	d)	Input link and coupler
8.	The	Coriolis component	of a	acceleration is taken in	nto a	account for		
	a)	Slider crank mechanism	b)	Four bar chain mechanism	c)	Quick return motion mechanism	d)	All of these
9.	The	Company of the control of the contro	ccele	eration, parallel to the	velo		, at th	e given instant is

	a)	Radial component	b)	Tangential component	c)	Coriolis component	d)	None of these
10.	For	low and moderate s	peed	engines the cam follow	lower			
	a)	Cycloidal motion	b)	Simple Harmonic Motion	c)	Uniform velocity	d)	Uniform acceleration and retardation
11.	Wh	ich sand is used for	maki	ing ferrous and non-f	ferrou	is alloys		returdation
	a)	Natural sand	b)	Synthetic sand	c)	Loam sand	d)	Refractory sand
12.	Wh	ich among the follow	wing	wood is most widely	y used	d for making patter	ns	
	a)	White Pine	b)	Mahogany	c)	Teak	d)	Maple
13.	Wh	ich of the following	has	the most magnitude i	in roll	ling		
	a)	Slip velocity	b)	Surface velocity	c)	Entering velocity	d)	Exiting velocity
14.	The	e earing defect in the	rolli	ng of the work piece	is no	ot caused by		(
	a)	Material dependent	b)	Blank holding	c)	Low clearance between the roll and workpiece	d)	Too high speed
15.	The extra metal which settles down in the gutter is known as							
	a)	Flux	b)	) Barrelling	c)	) Slag	d)	Flash
16.	The distance from the center of arc to the tip of electrode is called							
	a)	Arc length	b)	Arc distance	c)	Arc crater	d)	Arc depth
17.	Wh							
	a)	Ability of mechanical soundness	b)	Serviceability of joint	c)	Strain relieving brittleness	d)	Metallurgical compatibility of metal
18.	As	the grain size of a m	etal i	increases, its strength	ı			
	a)	Decreases	b)	Increases	c)	Remains constant	d)	No effect
19.	Wh	ich of the following	meth	nod is used for makir	ng cra	nkshafts?		`
	a)	Drop forging	b)	Press forging	c)	Open die forging	d)	Closed die forging
20.	Wh	ich is the operation t	o rel	ive residual stress fro	om th	e welding joint		
	a)	Shot peening	b)	post heating	c)	peening	d)	Pre heating
21.			is th	e extensive property	of the	e system		
	a)	Volume	b)	Pressure	c)	Temperature	d)	Density
22.		ideal gas at 27°C is all be then the temporal section.		re of the gas	re till	its volume become	s thre	te times. What

23.	For a simple closed sys work interactions is ide	ntifia	ble as the change in				
	a) Enthalpy	b)	Entropy	c)	Flow energy	d)	Internal Energy
24.	A 4 kW, 20 litre water 4 kJ/kg-K. Assuming a water temperature is				The second secon		
	a) 15°C	b)	20°C	c)	26 °C	d)	30°C
25.	In throttling process, w	hich o	one of the following	parai	meters remains con	stant	
	a) Temperature	b)	pressure	c)	entropy	d)	enthalpy
26.	When a system undergo	oes a	process such that $\int \frac{d}{t}$	$\frac{Q}{r} =$	0 and $\Delta S > 0$ , the p	roces	s is
	<ul> <li>a) Reversible adiabatic</li> </ul>	500 <b>8</b> .0	Irreversible adiabatic	c)	Isothermal	d)	
27.	For a heat engine opera			wo	rk output is 1/4 <sup>th</sup> of	the h	eat transferred to
	the sink. The efficiency a) 25%		30%	c)	20%	d)	33.3%
28.	Which of the following	devi	ces complies with Cla	ausiı	is statement of the	secon	d law of
	thermodynamics						
	<ol> <li>Closed cycle ga</li> <li>Internal combus</li> <li>Steam powerpla</li> <li>Domestic refrig</li> </ol>	stion e ant	engine				
	a) 1 only	b)	1 and 4 only	c)	2 and 3 only	d)	4 only
29.	For a given high tempe COP of a Carnot heat p a) Increases	ump	e reservoir $T_1$ , as the observed Decreases	diffe c)	rence between $T_1$ a  Does not change		
30.	Which of the following	100.00			S	4	
	<ol> <li>The entropy of</li> <li>The efficiency of</li> <li>substance and d</li> <li>Carnot's theore</li> </ol>	a pure of a re epend m stat	e crystalline substance eversible heat engine distribution on the temper tes that of all heat engind a given constant to	is in ature gines	dependent of the nate. s operating between	ature o	of the working ven constant
	a) 1 and 2 only	b)	1 and 3 only	c)	2 and 3 only	d)	1,2 and 3
31.	Atomic packing factor	of FC	C crystal structure is				
	a) 0.52	b)	0.58	c)	0.68	d)	0.74
32.	Number of atoms and c	oordi	nation number respec	ctive	ly for a BCC crysta	al stru	cture is
	a) 2,8	b)	2,12	c)	4,8	d)	6,12
33.	Edge dislocation is a						
	a) Point imperfection	b)	Line imperfection	c)	Surface	d)	Volume

34.			l pre	ms, the rule which he sent in the mixture at Lever rule	•			
35.	Fe-0	C alloy containing le	ss th	nan 0.8% carbon is ca	lled			
	a)	High speed steel	b)	Hypo-eutectoid steel	c)	Hyper- eutectoid steel	d)	Cast iron
36.	tern	ned as	of blo	ock of atoms along ce	rtain	crystallographic p	lane a	
	a)	Glide	b)	Twinning	c)	Slip	d)	Jog
37.	Rea	ction in which solid	phas	se transforms into two	o oth	er solid phases on o	coolin	g is called
	a)	Peritectic reaction	b)	Eutectic reaction	c)	Peritectoid reaction	d)	Eutectoid reaction
38.	Gib	b's phase rule is give	en b	y				
		Number of degrees $F = C+P$		eedom, C= Number of F = C+P-2		mponents, P= Num F = C-P-2	ber o	f phases] F = C-P+2
39.	TT	Γ diagram shows the	time	es required for isother	rmal	transition from		
	a)	Austenite to pearlite	b)	Austenite to ferrite	c)	Ferrite to pearlite	d)	Martensite to pearlite
40.	Har	denability of steel is	asse	essed by				•
	a)	Charpy impact test	b)	Rockwell hardness test	c)	Jominy end quench test	d)	Open hole test
41.	Unit of surface tension is							
	a)	$N/m^2$	b)	N/m	c)	Nm	d)	N
42.	Relation between poise and N sec/ m <sup>2</sup> is							
	a)	1 poise = 1 N sec/ $m^2$	b)	1 poise = 10 N sec/ m <sup>2</sup>	c)	1 poise = $0.1 \text{ N}$ sec/ m <sup>2</sup>	d)	1 poise = $0.01 \text{ N}$ sec/ m <sup>2</sup>
43.			h spe	ecific gravity x and he	eight	y when floating in	water	
	a)	xy	b)	x/y	c)	y/x	d)	None
44.	In a	flow net the angle in	n de	grees between stream	line	s and equipotential	lines	is
	a)	0	b)	45	c)	90	d)	180
45.	Ber	noulli's equation is l	aw c	of conservation of				
	a)	mass	b)	momentum	c)	velocity	d)	energy
46.	Wh	ile deriving Euler's	equa	tion the following for	ces a	are considered		
	a)	Pressure and viscous	b)	Gravity and viscous	c)	Pressure and gravity	d)	Pressure and surface tension
47.			tress	and velocity at a cros	ss se	-	ipe w	hen laminar flow
		es place are Both parabolic	b)	Both linear	c)	Linear and parabolic	d)	Parabolic and linear

40.	The fatto of maximum	velocity to average ver	ochty for a familiar flow	unough a circular pipe	15
	a) 1	b) 1.5	c) 4/3	d) 2	
49.	For the flow of water to calculated using	hrogh the penstocks of	Idukki Power plant, the	head loss due to friction	is
	a) Hagen- Poiseuille equation	<ul><li>b) Darcy Weisbach equation</li></ul>	c) Both	d) None	
50.	The type of fluid flow an	alysis where the observer	remains stationery is call-	ed	
	a) Eulerian	b) Lagrangian	c) Archimedes	d) None	



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Da	Reg No.: Name:	
NC	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY	
	SIXTH SEMESTER B.TECH DEGREE EXAMINATION, APRIL 2018	
	Course Code: CE352	
	Course Name: COMPREHENSIVE EXAM (CE)	
Ma	Max. Marks: 50 Durat	ion: 1 Hou
	(1) Each question carries one mark. No negative marks for wrong answers	
	(2) Total number of questions: 50	
	(3) All questions are to be answered. Each question will be followed by	4 possible
	answers of which only ONE is correct.  (4) If more than one option is chosen, it will not be considered for valuation.	
	(5) Calculators are not permitted	
1	Find the distance travelled if $r(t) = (1 - 3sint)i + 3costj$ , $0 \le t \le \pi$ .	
•	(A) 0 (B) $3\pi$ (C) $2\pi$ (D) $4\pi$	
2	3 11 1	ion io :
2	(A) $x^2$ (B) $x^{-2}$ (C) $x^{-1}$ (D) $x^n$	ion is :
2		naccina
)	3 Moment of inertia of a triangular section of base (b) and height (h) about an axis	passing
	through its C.G. and parallel to the base, is:  (A) $bh^3/4$ (B) $bh^3/8$ (C) $bh^3/12$ (D) $bh^3/36$	
4		
4		pectively
	are:	00 100
_	(A)0° and 180° (B) 180° and 0° (C) 90° and 180° (D) 9	
5		e point
	lies?	
	(A) First quadrant (B) Second First quadrant	
	(C) Third First quadrant (D) Fourth First quadrant	
6		es inclined
	at an angle of to horizontal	and and the
	(A) $20^{\circ}$ (B) $30^{\circ}$ (C) $40^{\circ}$ (D) 4	50
7		
	(A) $CO_2$ (B) $H_2S$ (C) $O_3$ (D) $CH_4$	
8	8 As per LEED certification, the platinum scale for building design and construction	on phase is

Page 1 of 5

(B) 50-59 pointS

(D) greater than or equal to 80 points

(A) 40-49points

(C) 60-79 points

9	Which manufacturing technique is based on the principle of "Seeing what is out there"?.							
	(A) Concurrent Engineering (B) Value Engineering							
	(C) Reverse Engineering (D) Prototype Engineering							
10	The concept of the high speed trains, Shinkansen Bullet Trains, was inspired by:							
	(A) The kingfisher (B) Shark skin							
	(C)The burr seed (D) The Gecko feet							
11	Yield point of brittle material can be ascertained by drawing a line parallel to the stress-							
	strain curve at							
	(A) 0.2 % of max strain (B) 2 % of max strain							
12	(C) 5 % of max strain (D) 10 % of max strain If the modulus of elasticity for a material is 250 GN/m <sup>2</sup> and Poisson's ratio is 0.25, the							
	modulus of rigidity of the material is							
	(A)250 $GN/m^2$ (B) 125 $GN/m^2$ (C)100 $GN/m^2$ (D) 65 $GN/m^2$							
13	For a given shear force, across a symmetrical I section, the intensity of shear stress is							
	maximum at the							
	(A)extreme fibres							
	(B) centroid of the section							
	(C)at the junction of the flange and the web, but on the web							
	(D)at the junction of the flange and the web, but on the flange							
14	If w is the load intensity, F the shear force and M the bending moment, which of the							
	following relationship is correct?							
	(A) $dF/dx=M$ (B) $dw/dx=F$ (C) $dM/dx=w$ (D) $dF/dx=w$							
15	. In a thin cylinder of diameter d and thickness t, subjected to internal pressure p, the							
	hoop stress developed is given by							
	(A) $pd/4t$ (B) $pd/2t$ (C) $pd/8t$ (D) $pd/6t$							
16	In a shaft subjected to pure twist, the maximum shear stress occurs at							
	(A)Centre of section (B)mid radius							
	(C) ¼ radius from centre (D)surface							
17	The ratio of Euler buckling load for two columns with same material and geometric							
	parameters having (i) both ends fixed and (ii) both ends pinned is							
	(A)2 (B) 4 (C) 1/8 (D) 8							
18	Pressure of 10m head of water is							
	(A). $9.81 \text{kN/m}^2$ (B) $98.1 \text{kN/m}^2$ (C) $981 \text{kN/m}^2$ (D) $9810 \text{kN/m}^2$							

19	The flow of a liquid at constant rate in	n a conically	tapered pipe is	classified as:
	(A) Steady, non-uniform flow	(B)	steady, uniform	flow
	(C) unsteady, uniform flow	(D) unstead	ly, non-uniform	flow
20	A Pitot tube is used to measure:			
	(A)) discharge	(B) pressure	e head	
	(A) velocity	(D) energy		
21	Coconut oil hasviscosity when c	compared wit	th water	
	(a) Lower (b) equal	(c) higher	(d) None of the	nese
22	For stable equilibrium of a floating bo	ody, its metad	centre	
	(A) coincides with centre of grav	rity(B) is belo	ow the centre of	gravity
	(C) is above the centre of gravity	(D)None of	above	•
23	When a mouth piece is fitted, the disc	harge throug	h an orifice :	
24	(A) Increases (B) Dec A Cipolletti weir has a side slope of	reases	(C) No chang	e (D)No discharge
	(A) l Vertical: 4 Horizontal	(B) 1	Vertical: 2 Ho	rizontal
	(C) 1 Horizontal: 4 Vertical(D) 1 Hor			
25	, , , , , , ,	ported portal	frame:	
26	(A) 1(B) 2(C) 3(D) 4 A pin jointed plane truss with m numb	ber of memb	ers and i numbe	r of joints, is unstable if:
		- 2j (C) (ı		(D) None of the above
27	Identify which among the following is			
	(A) Macaulay's method	(B) N	Mohr's area moi	ment theorems
	(C) Virtual work principles(D) Three	moment theo	orem	
28	In a two span continuous beam ABC	C(AB = BC)	, El – constant	) simply supported at the
	ends with a uniformly distributed le	oad over the	e entire length,	the maximum bending
	moment occurs at			
	(A)Mid span of AB (B) Mid sp	pan of BC		
	(C) a point between centre of A	AB and centr	re of BC (D)si	ipport B
29	A concentrated load W is acting at a d	listance of 'a	' from the left h	and support of a three
	hinged arch of span 21 and rise h hinge	ed at the cro	wn, the horizont	al reaction at the support
	is			== ;
	(A) Wa/h (B) Wa/(2h) (C)2	W/(ah) (1	D)2h/(Wa)	
30	A single concentrated load of 8kN rol	ls along a gir	rder of 15 m spa	n. The absolute
	maximum bending moment will be			
	(A)8 kN.m(B)15 kN.m(C) 30 kNm(D)	) 60 kN.m		
		age 3 of 5		
	The state of the s	uge J UI J		

31	Types of steel reinforcement used in concrete structures:
	(A)Hot Rolled Deformed Bars (B)Mild Steel Plain bars
	(C) Prestressing Steel (D)All the above
32	Curing of pavements, floors, roofs and slabs, is done by
	(A)Membrane method (B)Ponding method
	(C)Covering surface with bags (D)Sprinkling water method
33	Out the following which one is not a types of stone masonry
	(A) Veneer masonry (C) Fixer Masonry
	(B) Rubble Masonry (D) Ashlar Masonry
34	A volatile substance added to paint to make its application easy and smooth is known as:
	(A) Base (B) Solvent (C) Vehicle (D) None of these
35	Steps that are narrower on one side than the other and are used to change the direction of
	the stairs without landings
	(A) Trim (B) Volute (C) Winders (D) Stringer
36	Causes of Foundation failure is
	(A) Poor soil preparation (B) Water problems
	(C) Dry heat (D) All of the above
37	As per IS 456 nominal cover depends upon:
	(A) Grade of concrete (B) Grade of steel
	(C) Exposure conditions (D) Diameter of bar
38	Which type of failure is expected in over reinforced flexural members
	(A) Compression failure (B) Balanced failure
	(C) Tension failure (D) None of these.
39	Permissible tensile stress in M25 concrete is:
	(A) 25N/mm <sup>2</sup> (B) 2.5 N/mm <sup>2</sup> (C) 3.5 N/mm <sup>2</sup> (D) 5 N/mm <sup>2</sup>
40	Total area of side face reinforcement in a beam shall be:
	(A) O,2% of web area(B) 0.1% of web area
	(C) 0.12% 0f web area(D) 0.15% of web area
41	For a column effectively held in position and restrained against rotation at both ends, the
	effective length as per IS 456 is :
	(A) 1.0L (B) 0.70L (C) 0.65L (D) 0.5L
42	The span to depth ratio of a slab simply supported and spanning in two directions shall not
	exceed:
	(A) 25 (B) 30 (C) 35 (D) 40
	Page 4 of 5

(D) MH

47 Read the following statements related to IS light compaction test.

I. Soil is always compacted in 3 layers in the compaction mould.

(C) MI

II. Each lalyer is always given 25 blows.

(B) CH

Select the correct answer from among the following:

(A) Statement I is TRUE and Statement II is FALSE

(B) Statement II is TRUE and Statement I is FALSE

(C) B oth Statements are TRUE

(D) Both Statements are FALSE

48 The water level in a lake rises by 2m. The increase in effective stress at a depth of 1m below the bed level of the lake, due to above increase in water level would be (saturated unit weight of soil bed= 18kN/m³, unit weight of water=10kN/m³)

(A)18kPa

(A) CL

(B) 8kPa

(C) 20kPa

(D) zero

49 Choose the soil property useful for estimation of rate of consolidation settlement of a clay soil:

(A) Compression index

(B) Uniformity coefficient

(C) Coefficient of consolidation

(D) Time factor

50 Angle of internal friction of a purely cohesive soil is :

(A)  $45^{\circ}$ 

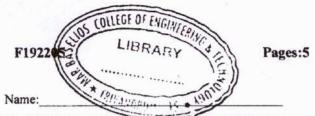
(B)  $30^{\circ}$ 

(C)0

(D)  $60^{\circ}$ 

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Reg No.:

# APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SIXTH SEMESTER B.TECH DEGREE COMREHENSIVE EXAMINATION(S), DECEMBER 2019

					Course Code: C					
			Cour	se n	ame: COMPREH	ENS	SIVE EXAM			
Max. Mark	(s: 5	0							Duration: 1 Hour	
Instructions:  (1) Each question carries one mark. No negative marks for wrong answers (2) Total number of questions: 50 (3) All questions are to be answered. Each question will be followed by 4 possible answers which only ONE is correct. (4) If more than one option is chosen, it will not be considered for valuation. (5) Calculators are not permitted  PART A- COMMON COURSES								swers of		
1.	The	sum of th	ie series ∑	∞ k=0	$\left(\frac{1}{3}\right)^k$ is					
	a)	1	=	b)	2	c)	1	d)	1	
2.	The	solution o	f the diffe	erent	$\frac{2}{3}$ ial equation $y'' - 4y$	ı' + 4	$4y = 0 \text{ is}^2$			
					$y = (A + Bx)e^{-2x}$			d)	$y = (A + Bx)e^{-x}$	
3.		e resultant ween the tv			orces has the same n	nagni	tude as either of the	e forc	es, then the angle	
	a)	120°		b)	30°	c)	90°	d)	60°	
4.	Two bodies of masses m <sub>1</sub> and m <sub>2</sub> are dropped from the top of a tower of same height. When these bodies reach the ground, their kinetic energies will be in the ratio									
	a)	1:2		b)	1: √2	c)	1:4	d)	1:1	
5.	The top view of a pentagonal prism with axis perpendicular to the vertical plane and parallel to horizontal plane will be a									
	a)	Pentagon		b)	Rectangle	c)	Trapezoid	d)	Straight line	
6.	In perspective projection the object is assumed to be kept on which of these planes.									
	a)	Picture pla	ine	b)	Horizon plane	c)	Ground plane	d)	Central plane	
7.	Which is the most abundant element available in the atmosphere?									
	a)	Oxygen		b)	Nitrogen	c)	Argon	d)	Carbon di oxide	
	The total amount of greenhouse gases produced to directly and indirectly support human activities, usually expressed in equivalent tons of carbon dioxide									
	a)	Carbon Da	iting	b)	Carbon Trading	c)	Carbon Footprint	d)	Carbon Factor	
	One of the pins in a 3 pin plug top is bigger than the rest. This is most closely related to design for 'X', where 'X' is									
	a)	Assembly		b)	Manufacturing	c)	Life cycle Cost	d)	Environment	
					Page 1 of 5					

10.	Which of the following	ng can be most appropri	ately associated with the	design space of a ball?					
	a) Speed	b) Velocity	c) Diameter	d) Height					
		PART B- C	ORE COURSES						
11.	Elongation of a bar of weight 'W' is given by		aving unit area of length	'L', due to its own					
	a) 2WL/E	b) WL/E	c) WL/2E	d) WL/3E					
12.	If a material neither expands nor contracts in volume when subjected to stresses, then the poisons ratio must be								
	a) 0.25	b) 0.33	c) 0.5	d) zero					
13.			ing over the entire length tilever is 6 kN, what is t	n of a 3m long cantilever the value of w?					
	a) 2	b) 3	c) 4	d) 5					
14.			y perpendicular act on a lting strain of the bar is a	rectangular parallelopipe given by	ed				
	a) $\frac{\sigma}{E}(1+\mu)$	b) $\frac{\sigma}{E}(1-\mu)$	c) $\frac{\sigma}{E}(1+2\mu)$	d) $\frac{\sigma}{E}(1-2\mu)$					
15.			ling load of a column is an with one end fixed an	given by $P = \pi^2 EI/Cl^2$ . I d the other end free, is	n				
	a) 5/8	b) 8/5	c) 5/4	d) 4/5					
16.	The polar modulus (to	rsional section modulus	) for a solid shaft of diar	neter (D) is					
	a) $\frac{nD^2}{4}$	b) <u>nD<sup>3</sup></u> 16	c) $\frac{nD^3}{32}$	d) <u>πD<sup>4</sup></u> 64					
17.	For a circular shaft sul	bjected to torsion, the va	ariation of shear stress ac	ross the section is					
	a) Parabolic with maximum stress at centre	b) uniform over the section	e c) Linear with ze at centre	ero d) linear with maximum at centre					
18.		xial load P in a member	with cross sectional area	A, moment of inertia I	is				
	a) $\int P^2 dx/AE$	b) $\int P^2 dx/EI$	c) $\int P^2 dx/2EI$	d) $\int P^2 dx/2AE$					
19.	The prop reaction of a propped cantilever of span L, subjected to udl of intensity w over full span is								
	a) 3 wL/8	b) 5wL/8	c) wL/8	d) 9wL/8					
20.	A UDL shorter than the shear at left support is	a simply supported beam DL is placed	from left to right. The						
	a) With its head at mid span	b) With its tail at support A	c) With its head support A	support B	at				
21.		which carries 3 equally spontal reaction at the sup	ports: COLLEGE OF EN						
		Page 2 of S	III LIBRA	IRY I					

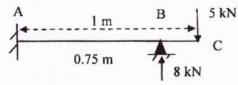
TRIVANDRUM 15

- More at the a) support which is at higher level
  - b) More at the support which is at lower level

- Cannot be generalised
- 22. A beam AB (span L, flexural rigidity EI) is fixed at A and B. The support B settles by Δ. The
  - - A moment of  $\frac{6EI\Delta}{L^2}$  b) A moment of  $\frac{6EI\Delta}{L^2}$  c) Moment of  $\frac{6EI\Delta}{L^2}$  d) Moment of  $\frac{6EI\Delta}{L^2}$  is induced at A is induced at B only is induced at A and  $\frac{3EI\Delta}{L^2}$

c) equal

- 23. The analysis of a statically indeterminate beam can be done by
  - Equations of equilibrium
- b) Equations of displacements or deformations
- c) Both (a) and (b)
- None of the above.
- 24. The beam ABC shown in figure is horizontal. The distance to the point of contraffexure from the fixed end 'A' is



- 0.333 m
- b) 0.666 m

- 25. A uniform body 3m long, 2m wide and 1m deep floats in water. If the depth of immersion is 0.6m, the weight of the body is
  - 3.53kN
- b) 33.5kN
- c) 35.3kN
- 25.2kN

- In pipe flow the critical Reynolds number is about 26.
  - 640 a)
- b) 500
- c) 2000
- 64000
- 27. The velocity vector in a fluid is given  $V=5x^4+3y^2+2z$  (in metre/sec). What is the acceleration of it at point (1,3,4)?
  - $40 \text{ m/s}^2$ a)
- b) 20 m/s<sup>2</sup>
- c) 60 m/s<sup>2</sup>
- $80 \text{ m/s}^2$

- 28. The flow in a pipe is said to be non-uniform when
  - a) The liquid particles at all sections have the same velocities
- b) The liquid particles at different sections have different velocities
- The quantity of liquid flowing per second is constant
- Each liquid particle has a definite path

- 29. Streamline and an equipotential line in a flow field
  - Are parallel to each other
- b) Are perpendicular to each other
- Intersect at an acute angle
- Are identical
- 30. Boundary layer thickness is the distance from the boundary to the point where velocity of the fluid is
  - a) equal to 10% of free stream velocity
- equal to 50% of free stream velocity
- c) equal to 90% of free stream velocity
- equal to 99% of free stream velocity

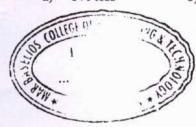
31.	Mild	steel contains carbo	on co	entent up to									
	a)	0.25%	b)	0.25 to 0.7%	c)	0.7 to 1.5%	d)	>2%					
32.	Impa	Impact value of aggregate for concrete used in wearing surface											
	a)	Not greater than 45%	b)	Not greater than 30%	c)	Not less than 15%	d)	Not greater than 15%					
33.	Mos	t commonly used ad	mixt	ure in concrete to red	luce 1	the setting time of	ceme	nt is					
	a)	Calcium sulphate	b)	Calcium chloride	c)	Natural wood resins	d)	Pozzolana					
34.	A ro	A roof which slopes in 4 direction is called?											
	a)	Shed roof	b)	Hipped	c)	Gambrel roof	d)	Gable end roof					
35.	The	voussoir placed at co	rown	of an arch is known	as?								
	a)	Key	b)	Soffit	c)	Springer	d)	Haunch					
36.		The process of injecting mortar with low water cement ratio at a high pressure through a nozzle to repair cracks in concrete is called											
	a)	Grouting	b)	Shortcreting	c)	Guniting	d)	None of the above					
37.	Cohesionless soils are formed due to												
	a)	Oxidation of rocks	b)	Leaching action of water on rocks	c)	Physical disintegration of rock	d)	Blowing of hot and cold wind					
38.	The		it we	eight to dry unit weigl	ht of	a soil is 1.25. The	water	content of the					
	a)	10%	b)	25%	c)	50%	d)	100%					
39.	The	The toughness index of clayey soils is given by											
	a)	Plasticity Index/ Flow Index		Liquid limit/ Plastic limit	c)	Plastic Limit	d)	Plastic limit/ Liquidity index					
40.	Unconfined compressive strength of a pure clayey soil is given by 120 KN/m <sup>2</sup> , what will be the value of cohesion?												
	a)	0	b)	60 kN/m <sup>2</sup>	c)	120 kN/m <sup>2</sup>	d)	240 kN/m <sup>2</sup>					
41.	Square Root time method is to determine												
	a)	$T_{\nu}$ , Time factor	b)	a <sub>v</sub> , Coefficient of compressibility	c)	C <sub>v</sub> , Coefficient of consolidation	d)	m <sub>v</sub> , Coefficient of volume compressibility					
<ol> <li>In the stability analysis of finite slopes, the Swedish Circle method assur- sliding is</li> </ol>							es tha						
	a)	An Arc of a parabola		Straight line	c)	An elliptical arc	d)	An arc of a Circle					
43.	Compaction by vibratory roller is the best method of compaction in the case of												
	a)	Moist Silty Sand	b)	Well graded dry sand	c)	Clay of medium compressibility	d)	Silt of high compressibility					
				Page 4 of 5		COLLEGE OF ENGIN	150						

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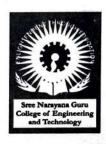
- 44. The modulus of rupture of concrete is
  - The direct tensile b) strength of concrete
- The direct compressive strength of concrete
- c) The tensile strength of concrete under bending
- The characteristic strength of concrete
- 45. As per IS 456-2000, in the limit state design of flexural member, the strain in reinforcing bars under tension at ultimate state should not be less than

- a)  $\frac{fy}{Es}$  b)  $\frac{fy}{Es} + 0.002$  c)  $\frac{fy}{1.15 Es}$  d)  $\frac{fy}{1.15 Es} + 0.002$ The limiting strain in an extreme fibre in concrete in a balanced section at limit state of flexure as per IS 46. 456: 2000 is
  - 0.002 a)
- b) 0.0035
- c) 0.0038
- 0.0041 d)
- 47. For limit state of collapse in flexure of singly reinforced beams, if the strain in steel reaches the limiting value earlier than that in concrete, the beam section is called
  - Under reinforced section
- b) Critical section
- c) Over reinforced section
- d) Balanced section
- 48. The span to depth ratio limit is specified in IS 456-1978 for the reinforced concrete beams, in order to ensure that the
  - Tensile crack width is below a limit
- b) Shear failure is avoided
- Stress in the tension reinforcement is less than the allowable value
- Deflection of the beam is below a limiting value
- 49. If d is the diameter of a bar,  $f_i$  is allowable tensile stress and fb is allowable bond stress, the bond length is given by
  - ft d 4 fb
- b)  $\frac{\pi ft d}{4 fb}$

- 50. The load carrying capacity of a helically reinforced column as compared to that of a tied column is about
  - 5% less
- b) 10% less
- c) 5% more
- d) 10% more



DEGREE / BRANCH	MECHANICAL
SEMESTER 6th	SUBJECT CODE MET308
SUBJECT COMPREM	ENSIVE COURSE WORK
CLASSES	
COMMENCING DATE	ENDING DATE
ACADEMIC YEAR	



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

P.O. CHALAKKODE - PAYYANUR.

Approved by AICTE, New Delhi, Affiliated to APJ Abdul Kalam Technological University, and Managed by Sree Bhakthi Samvardhini Yagam, Talap, Kannur

# ATTENDANCE

AND

ASSESSMENT RECORD



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

P.O. CHALAKKODE - PAYYANUR.

Approved by AICTE, New Delhi, Affiliated to APJ Abdul Kalam Technological University, and Managed by Sree Bhakthi Samvardhini Yogam, Talap, Kannur

# ATTENDANCE AND ASSESSMENT RECORD

NAME OF STAFF	Rahul. C	· <u>9</u>	
DESIGNATION	Assistant	Professor	
DEPARTMENT	Meehanic	rl.	

Degree / Branch : MECHANICAL Subject : CCW MONTH 2 2 2 2 3 3 4 4 4 6 666 CLASS 162023 ROLL NAME 9 10 21 28 8 31 4 118 18 9 DATE NO. 2 2 HOUR ARJUN SHYLESH xx A A ASHISH. K. K. 2 × × 3 ASHWIN JOHN X × X X × X AS WIN BABU. M.Y 4 X X 5 ASWIN. P.P A A 6 DHEERAT. K.V A X X 7 K. N. MUHAMMED MISHAL X A XX A A × X X X MAJID. V.Y X X X A A X X X X X MOHAMMED SHAD ABOUL SATHAR 9 A X X X A × SOURAG. K A × X × X X X

Signature of Staff Member

Module Co-ordinator

di.



# SREE NARAYANA GURU COLLEGE OF ENGINEERING LECHNOLOGY,

#### **COURSE TEAM MEETING CHECKLIST**

#### SEMESTER:

DATE OF THE MEETING:

**VENUE:** 

TIME:

- 1. NAME OF THE FACULTY: RAHUL. C. G
- 2. DEPARTMENT: MECHANICAL ENGINEERING
- 3. SUBJECT CODE AND NAME: MET 308: COMPREHENSIVE COURSE WORK

4. DETAILS REGARDING THE SUBJECT:

WHETHER HANDLING SUBJECT FOR THE FIRST TIME? IF NOT MENTION THE COUNT EXCLUDING THIS TIME	
TARGET PASS PERCENTAGE	75%.
NATURE OF THE SUBJECT	EASY / MODERATE / TOUGH
CPS	COMPLETED / NOT COMPLETED
ATTENDANCE REGISTER	COMPLETED / NOT COMPLETED
ASSESSMENT PLAN	FILED / NOT FILED
ACADEMIC CALENDAR	FILED / NOT FILED
QP & SCHEME OF FIRST ASSIGNMENT	AVAILABLE / NOT AVAILABLE
QP & SCHEME OF SERIES TEST 1	AVAILABLE / NOT AVAILABLE O
FEEDBACK OF THE TUTOR REGARDING THE CLASS	
ACTION PLAN BY THE FACULTY TO ACHEIVE TARGET PASS PERCENTAGE	
ANY OTHER REMARKS FROM THE FACULTY	

FACTOR

COURSE CHAIRMAN



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY KANNUR

#### **CUMULATIVE ATTENDENCE**

#### TOTAL HOURS=16

ROLL NO	REGISTER NO	NAME	ATTENDENCE %
1	SNC20ME001	ARJUN SHYLESH	86
2	SNC20ME002	ASHISH K	84
3	SNC20ME003	ASHWIN JOHN	83
4	SNC20ME004	ASWIN BABU M V	82
5	SNC20ME005	ASWIN P P	87
6	SNC20ME006	DHEERAJ K V	84
7	SNC20ME007	KN MUHAMMED MISHAL	82
8	SNC20ME008	MAJID V V	82
9 SNC20ME009		MOHAMMED SHAD ABDUL SATHAR	89
10 SNC20ME010		SOURAG K	84



## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY KANNUR

# INTERNAL MARKS (45 MARKS)

ROLL. NO	REGISTER NO	NAME	TEST 1	TEST 2
1	SNC20ME001	ARJUN SHYLESH	10	32
2	SNC20ME002	ASHISH K	15	33
3	SNC20ME003	ASHWIN JOHN	15	37
4	SNC20ME004	ASWIN BABU M V	12	28
5	SNC20ME005	ASWIN P P	11	24
6	SNC20ME006	DHEERAJ K V	13	27
7	SNC20ME007	KN MUHAMMED MISHAL	10	30
8	SNC20ME008	MAJID V V	11	29
		MOHAMMED SHAD ABDUL SATHAR	9	31
10	SNC20ME010	SOURAG K	13	32



# APJ Abdul Kalam Technological University CET Campus, Thiruvananthapuram Kerala -695016 India

#### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Students Examination Eligibility Details

Academic Year : 2022 - 2023

Degree Type: Regular

Program:

**Branch: MECHANICAL ENGINEERING** 

Semester: S6

B.Tech(Full Time)

Course Name: COMPREHENSIVE COURSE

**WORK-MET308** 

Batch : 1

**Eligibility For : Pursuing Students** 

Period of Registration : NA

Student Name	Attendance %, Internal Marks	Availed Leaves	Disc. Action	Eligible for Written Exam	Status:	In- eligibility Type
ARJUN SHYLESH Register No : SNC20ME001	Attendance : 86.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by faculty	
ASHISH K Register No : SNC20ME002	Attendance : 84.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by faculty	
ASHWIN JOHN Register No : SNC20ME003	Attendance : 83.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by faculty	
ASWIN BABU M V Register No : SNC20ME004	Attendance : 82.0 Internal Marks :	Long Leave : Duty Leave :		Yes	Submitted by faculty	

ASWIN P P	Attendance :	Long Leave :	Yes	Submitted by	
Register No : SNC20ME005	87.0 Internal Marks :	Duty Leave :		faculty	
DHEERAJ K V Register No : SNC20ME006	Attendance : 84.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
KN MUHAMMED MISHAL Register No : SNC20ME007	Attendance : 82.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
MAJID V V Register No : SNC20ME008	Attendance : 82.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
MOHAMMED SHAD ABDUL SATHAR Register No : SNC20ME009	Attendance : 89.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	
SOURAG K Register No : SNC20ME010	Attendance : 84.0 Internal Marks :	Long Leave : Duty Leave :	Yes	Submitted by faculty	



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, DEPARTMENT OF MECHANICAL ENGINEERING STUDENTS NAME LIST -S6

REGISTER NO	NAME OF STUDENT
SNC20ME001	ARJUN SHYLESH
SNC20ME002	ASHISH K K
SNC20ME003	ASHWIN JOHN
SNC20ME004	ASWIN BABU M V
SNC20ME005	ASWIN P P
SNC20ME006	DHEERAJ K V
SNC20ME007	KN MUHAMMED MISHAL
SNC20ME008	MAJID V V
9 SNC20ME009 MOHAMMED SHAD ABI	
SNC20ME010	SOURAG K
	SNC20ME002  SNC20ME003  SNC20ME004  SNC20ME005  SNC20ME006  SNC20ME007  SNC20ME007  SNC20ME009



# SREE NARAYANA GURU COLLEGE OF ENGINEERING L TECHNOLOGY ---

#### **PEER EVALUATION FORM**

#### FORM 1

#### [TO BE FILLED BY THE OBSERVER AND THE OBSERVEE AFTER DISCUSSION]

#### PEER SUPPORT FOR LEARNING & TEACHING THROUGH OBSERVATION

#### PART 1: PRE-OBSERVATION MEETING

The faculty being observed should complete this form in preparation for a short meeting with their peer observation group / observer prior to the session to be observed.

7
Peer Observation Group:
1. Name & Department DIVYATHEJ-M.V, Machanical.
2. Name & Department
Details of Teaching / Learning Session to be observed:
Observed: Rahul C. G. Mechanical. Observer: Divyataij M. V., Mechanica
Day/Date/Time: $18[04[2023]$ Group/Location: $ME-S6$ .
Type of Session / Duration: Lecture No of Students: 10
Topic / Title of Session: Banic Thermodynamie Concepts.
What are the objectives for the session (both for you and for the students)?
To understand the concept of basic thermodynamic
To understand the concept of basic thermodynamic concepts and working pameliple.

What would you like feedback on? (e.g. use of visual aids / the white board, your voice, interaction with the students, pace, use of examples, use of new techniques etc.)

I Communice has skills

-1 Voice Claridy.

- PPT presentation

Are there any factors which the observer needs to be aware of? (e.g. problems relating to the group or individual students, you are trying out something new etc.)

- Student Interaction.



# Sree Narayana Guru College of Engineering & Technology

CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

# AY 2021 – 2022 (PLACEMENT ACTIVITIES, STUDENTS PLACED ON AND OFF CAMPUS, HIGHER STUDIES)



#### Sree Narayana Guru College of Engineering & Technology

CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



# 5.1.3 Percentage of Placement of organing students and students progressing to higher education

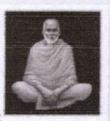
Year	Name of student placed	Program graduated from	Name of the employer with contact details	Pay package at appointment (In INR per annum) (applicable for students who got placement)
	AMAL P R	BTECH IN CIVIL ENGINEERING	CAPEGEMINI	400010
	REVATHI K	BTECH IN CIVIL ENGINEERING	CAPEGEMINI	400010
		B TECH IN COMPUTER SCIENCE	TCS	3.5 L/Annum
	VISMAYA SREEJITH	AND ENGINERRING	ZERONE	3.5 L/Annum
			TCS	3.5 L/Annum
		B TECH IN COMPUTER SCIENCE	Capgemini	3.5 L/Annum
	C ATHIRA	AND ENGINERRING	ibsSoftware	
		B TECH IN COMPUTER SCIENCE	Capgemini	3.5 L/Annum
	AKSHAYA M.K.	AND ENGINERRING	Infosys	3.5 L/Annum
2021-22	AISWARYA SURENDRAN	B TECH IN COMPUTER SCIENCE AND ENGINERRING	Capgemini	3.5 L/Annum
- end	SANDRA M	B TECH IN COMPUTER SCIENCE AND ENGINERRING	Infosys	3.5 L/Annum
	PRANOY PRAMOD	B TECH IN COMPUTER SCIENCE AND ENGINERRING	Capgemini	3.5 L/Annum
LEENA A V	VRINDA RAMACHANDRAN		TCS	3.3L/annum
HUMBUL JULIAY	SORAV RITHIN PM	B TECH IN COMPUTER SCIENCE AND ENGINERRING	Valorem Reply	4L/annum

M/	ABITHA C	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	Capgemini	4L/annum
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## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Promoted by Sree Bhakthi Samvardhini Yogam, Kannur Affiliated to KTU & Recognised by AICTE, New Delhi Payyanur, Kannur, Kerala, Pin-670307 Office-04985-201989, 7812911912 Email-info@sngcet.org





The Training & Placement Cell at SNGCET presents

# A Meet with the HR

#### **Key Topics**

- . How to Build a Resume
- . How to face Interviews confidently
- . What the corporate expects from you

10th May 2022



10am to 12 Noon

Venue: Seminar Hall

For the students of S6 and S8

#### Student co ordinators

Aswitha Gangadharan (S6-CE- College Union General Secretary) Keerthana C V

(S6-EC)

### Our Speaker



Dr. Surekha S Nair Director-HR (India & Middle East)

Eurofins India Pvt. Ltd.



#### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

(PROMOTED BY SREE BHAKTHI SAMVARDHINI YOGAM, KANNUR) CHALAKODE P.O., PAYYANUR, KANNUR - 670307, KERALA.



#### Training and Placement Cell, SNGCET presents

"A Meet with the HR"

AGENDA

Prayer

Welcome Address
Prof. Raveendran K, HoD/ECE & EEE

Presidential Address
Dr. Leena A. V., Principal

Felicitation Address Sri. Ashok Hegde L., AO

Guest of Honour
Dr. Surekha Nair
Director- HR (India and Middle East), Eurofins India Pvt. Ltd

Introduction of Chief Guest
Ms. Sanishma Sachithanand, 86 ECE.

Vote of Thanks

Ms. Aswitha Gangadharan, S6 CE General Secretary, College Union, SNGCET

We will be pleased to see you at the inaugural function of the workshop on Tuesday, 10th May 2022.

Venue Seminar hall Time 10.00AM - 12Noon



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

#### TRAINING & PLACEMENT CELL

#### REPORT ON A MEET WITH HR

Date: 10/05/2022 Venue: Seminar Hall

Training and Placement Cell is to guide students to choose right career and to give knowledge, skill, and aptitude and meet the manpower requirements of the industry. The industry is always on the lookout for students who are vibrant, energetic individuals and ready to accept challenges, attentive, a good academic background, fast learners, open to learning even at work and more importantly, good communication skills. Our college Training and Placement cell conducted a one day Seminar focusing on our students' skill development and to prepare them for the interviews. This activity focused on the personality development to make the students reliable, with a positive attitude and right decision making. We were honoured with an eminent personality, Dr. Surekha S Nair, who engaged the session. She is a Human Resources Leader with more than 2 decades of transforming organizations by designing future-ready, sustainable and scale- able HR ecosystems. The session came to be a great success with our students getting an opportunity to interact with Dr. Surekha S Nair, who helped them to learn about the non-academic expectations that a company expects from the candidates.





Dr. LEENA A V
PRINCIPAL
SREE NARAYANA GURU COLLEGE OF

NARAYANA GURU COLLEGE O SINEERING & TECHNOLOGY PAYYANUR, KANNUR

338

S/NO	NAME OF THE STUDENT	SIGN
1.	AATHISH P JAGADEESH	And -
2.	ABHINAV.A.P	del.
3.	AHMED ADIL	James
4.	AJMAL	at.
5.	ALTHAF ASHRAF.K.V	Ashal
6.	AMAR RAJENDRAN	AB
7.	AMRITHA RAJEEVAN.M	Day.
8.	ANAGHA.K	Draw
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15.	THANYA MOHAN	Amus
16.	THEJA RAJESH	Thomas our
17.	U.V.VAISHNAV	valle
18.	VARUN	Mary.
19.	VISHNU PRABHAKARAN	Vietne
20.	VISHNU.R	This
21.	V.K.AYSHA	- Wild-
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	JEEVA NARAYANAN	June
	KAVYA DEVI.M.K	Mar.
	MANILA MAHESH	BA AND
	MEGHA.P.K	Med
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	SIDHARTH.K	C
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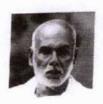


# Sree Narayana Guru College of Engineering & Technology

P.O. Chalakode, Payyanur - 670 307, Kannur Dist., Kerala State.

(Approved by AICTE New Delhi and Athliated to AP. Abdul Kalam Technological University)

Managed by Sree Bhakthi Samvardhini Yogam, Kannur-2.



Vision

A knowledge society promoting human excellence and enlightenment through effective education

Missian -

To provide technical education of the highest quality and standard of excellence for socio-economic progess embedded in clearly articulated values and supported by commitments

# **Class Record**

THEORY

Department ( Electronics & Communication	Engineering
Faculty 1 Jeeka 19	
Academic Year 2021 - 2022	Xeen
Branch (ECE	SemesterENA A V
Course (ECT308 complehensive Nork	PRINCIPAL PRINCIPAL SREE NARAYANA GURU COLLEGE OF SREE NARAYANA & TECHNOLOGY ENGINEERING & TECHNOLOGY PAYYANUR, KANNUR PAYYANUR, KANNUR

# DEPARTMENT OF: Electronics & Communication Engineering

# CLASS RECORD THEORY

NAME

: Melka. M

DESIGNATION

: Assistant Professor.

ACADEMIC YEAR

: 2021-2022

Class Attendan

SLA	<b>V</b> o	Reg	No.	Name
1.	-	SNC19	ECOOL	Arjun Ashok
2.	- 1		£(002	Jithin Sasidharan - N
3.	-	NCIGE		Keerthang C.V
4.		NC196		
5.		NCIGE		Maxiyambi Sanishma Saihifha
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LIC

#### 1. Which of the following is not a charecteristics of an ideal operational amplifier?

a) BW is infinite b) Perfect balance V0= 0 when V1=V2 c) Gain is infinite d) Input resistance is zero

#### 2 CMRR for an opamp should be

a) As large as possible b) Close to zero c) Close to unity d) As small as possible

#### 3. Which of the following is an operational amplifier?

a) IC 8085 b) IC 7805 c) IC 741 d) IC 555

#### 4. An opamp as a voltage follower has a voltage gain of

a) infinity b) zero c) unity d) Less than unity

#### 5 An oscillator circuit which meant for converting sine wave into square wave is called

a) Schmitt triger b) Blocking Oscillator c) Multivibrator d) Weinbridge oscillator

#### 6. The maximum rate that an output of an operational amplifier can change

a) CMRR b) Slew rate c) input offset voltage d) none of the above

#### 7. For the circuit shown , find the output voltage for an input voltage of -1 V

$$\begin{array}{c|c}
10k\Omega \\
\hline
1k\Omega \\
\hline
V_{in}
\end{array}$$

a) -11 V b) 11 V c) -10 V d) 10 V

# 8.In an opamp inverting amplifier,pin 2 of 741 IC is at virtual ground. This statement is based on which law?

a) KVL b) KCL c) Ohms law d) Coulombs law

#### 9. When a step input is given to an opampintegrator, the output will be

a) A ramp b) A sinusoidal c) A rectangular wave d) A triangular wave with dc bias

# 10. The approximate input impedance of an opamp circuit which had Ri=10 K,Rf=100 K ,Rl=10K

a)infinity b) 120 K c) 110 K d) 10 K

#### 11. Which of the following electrical charecteristics is not exhibited by an ideal opamp?

- a) Infinite voltage gain bb) Infinite BW c) Infinite output resistance d) Infinite slew rate
- 12.A differential amplifier .....
- a). is a part of an Op-amp b). has one input and one output c). has two outputs d) answers (a) and (b)

#### 13.Ideal opamp has infinite voltage gain because

- a) To control the output voltage b) to obtain finite output voltage
- c) to receive zero noise output voltage d) None of the above

#### 14 Find the output voltage of an ideal opamp . If V1 and V2 are the two input voltages

a) V0=V1\*-V2 b) V0=A\*(V1-V2) c) A\*(V1+V2) d) V0=V1\*V2

#### 15. Which is not the ideal charecteristics of an opamp?

- a) Input resistance >=0 b) Output resistance >=0 c) Bandwidth >=infinity
- d) Openloop voltage gain >=infinity

#### LCD

#### 1. The output of a logic gate is 1 when all its inputs are logic 0. The gate is either

- a) NAND or EX-OR gate b) NOR or EX-NOR gate c) OR or Ex-Nor gate
- d) AND or EX-OR gate

#### 2. Which of the examples below expresses the commutative law of multiplication?

- a) A+B=B+A b)A\*B=B\*A c) A\*B=B+A d) A\*(B\*C)=(A\*B)\*C
- 3. What will be the output from a D flip-flop if D = 1 and the clock is low?
  - a) No change b) Toggle between 0 and 1 c) 0 d) 1
- 4. There are cells in a 4-variable K-map.
  - a)12 b) 16
- c) 18
- d) 8

- 5.A(A + B) = ?
  - a) AB b)1
- c)(1+AB) d) 0
- 6.(A + B)(A' \* B') = ?
  - a) 1
- b) 0
- c) AB
- d)AB'

#### 7. The logical expression Y=A+A'B=

- a) Y=AB b)Y=AB'
- c) Y = A' + B
- d) Y=A+B

#### 8.Minimum number of NAND gate required to implement A+AB'+ABC' =?

- a) 0 b) 1 c) 4 d) 7
- 9. The octal number  $(651.124)_8$  is =
  - a) (1A9.2A)<sub>16</sub> b) (1B0.10)<sub>16</sub> c)(1A8.A3)<sub>16</sub> d) (1B0.B0)<sub>16</sub>

#### 10.Convert hexadecimal number (1E2) into decimal

- a) 480 b) 483 c) 482 d) 484
- 11. The string of 8 bits is known as
  - a) Nibble b) Byte c) Octed d) Quad

#### 12. The 1's complement of a binary number is obtained by changing

a) Each 1 to a 0 b) Each 0 to a 1 c) Each 1 to 0 and each 0 to 1 d) None of the above

13. The base of a hexadecimal number is

a) 6 b) 8 c) 16 d) 10

14. Which out of the following binary number is equivalent to decimal number 24

a) 1101111 b) 11000 c) 111111 d) 11001

15.If each successive code differs from its preceding code by a single bit only, then this code is called

a) BCD code b) Gray code c) weighted code d) Binary code

- 1. Neagtive feedback in an amplifier results in
  - a) Reduces gain b) Increases distortion c) Reduces BW d) Increases noise
- 2. Cross over distortion occurs at
  - a) Class A output stage b) Class B output stage c) Class Ab output stage
  - d) Common pulse output stage.
- 3. Which of the following BJT configuration has highest power gain?
  - a) CE b) CC c) CB d) None of the above
- 4. An amplifier has a open loop voltage gain of -500 . This gain is reduced to -100 when negative feedback is applied. The reverse transmission factor B of the system is?
  - a) -0.025 b) -0.008 c) 0.1 d) -0.2
- 5.An amplifier has a voltage gain of 120.To reduce distortion ,10% negative FB is employed .The gain of the amplifier with feedback is ?
  - a) 141 b) 92.3 c) 9.23 d) 1.41
  - 6.In class B amplifier, the output current flows for?
    - a) less than half input cycle b) More than half input cycle c) Half input cycle
    - d) Entire input cycle
  - 7. Push pull amplifier cicuit is used as
    - a) Power amplifier b) Audio amplifier c) RF amplifier d) Emitter follower
  - 8.In class A operation of the amplifier, the current flows through the active device for?
- a) Whole input cycle b) Half of i/p cycle c) More than half of i/p cycle d) More than three fourth of the input cycle
  - 9. The maximum theoretical efficiency of a Class A amplifier can be
    - a) 50% b) 78% c) 25% d) 100%
  - 10 Class AB operation is often used in power amplifiers in order to
    - a) Get maximum efficiency
       b) Re,ove even harmonics
       c) Overcome a cross over distortion
  - 11.An oscillator produces ----- oscillations
    - a) Damped b) Undamped c) Modulated d) None of the above

#### 12. An oscillator employs ----- feedback

- a) Positive b) Negative c) neither positive nor negative d)Data insufficient
- 13 Hartley oscillator is commonly used in
  - a) Radio receivers b) Radio transmitters c) TV receivers d) None of the above
- 14. A weinbridge oscillator uses ----feedback
- a) Positive b) Negative c) Both positive and negative d)Non of the above
- 15. The piezoelectric effect in crystal is ----
- a) A voltage developed because of mechanical stress b) A change in resistance because of temperature c) A change in frequency because of temperature d) None of the above

Question Number	Response	Question Number	Response
1	a/	1	av
2	b Y	2	ax
3	ai	3	a x
4	by	4	ev
5	a.	5	b %
6	diy	6	c ×
7	bV	7	c > c > c > c > c > c > c > c > c > c >
8	₽>>	8	cb
9	av	9	bV
10	ac	10	CY
11		11	a4
12	Cy	12	6/
13	Cy	13	d cy d
14	ap	14	CY,
15	b	15	d
16	by		
17	9		
18	=7		
19	c		
20		1	

Question Number	Response	Question Number	Response		
1	A. V	1	C		
2	B	2	D /		
3	A. /	3			
4	B. 7	4	be		
5	A. V.	5			
6	D/	6			
7	6 y	7			
8	bo	8	av.		
9	ay	9			
10	ar	10			
11		11	6		
12	cv	12	0/		
13	c f	13	c		
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15	bv	15	A		
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Question Number	Response	Question Number	Response
1	av	1	CV
2	dv	2	av
3	av	3	CV
4	5 V	4	av
5		5	d x
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7	5 ×	7	b 4
8	a+	8	bV
9		9	c V
10	av	10	d V
11	a v.	11	dy
12	t d v	12	a x
13	a	13	C +
14	Б	14	b
15	av	15	cv
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Question Number	Response	Question Number	Response		
1	a.V	1	ap		
2	bV	2	b.		
3	a. /	3	c		
4	b /	4	de		
5	av	5	a		
6	dy	6	d. P		
7	Ь	7	d.4		
8	6/	8	d		
9	a/	9	d.		
10	av.	10	Ы.		
11		11	0		
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13	W -	13	5		
14	a	14	C		
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16	b /				
17	ap		14		
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20	64	/			

1.Generation of SSB SC signa	al is done by
a) Amplitude Modulator	b) Frequency discrimination method

- 2. What is the maximum transmission efficiency of an AM signal?
  - a) 64.4% b) 33.33%

c) Product modulator

- c) 56.66%
- d) 75.55%
- 3. Which of the following analog modulation scheme requires minimum transmitted power and minimum channel bandwidth?

d) None of the above

- a) DSB-FC (b) VSB c) DSB-SC (d) SSB
- 4.Armstrong method is used for the generation of
- a) Direct FM (b) Indirect FM c) SSB-SC (d) DSB-SC
- 5.For AM, with 100% modulation, power in each sideband is \_\_\_\_\_ of that of carrier?
- a) 50% (b) 70% c) 25% (d) 60%
- 6. The Nyquist sampling rate of the continuous time signal Sinc(500t) is
- a) 1000 Hz. b) 100 Hz. c) 500 Hz d) 250 Hz
- 7.In the generation of a modulated signal, a varactor diode can be used for
- a) FM generation only. b) AM generation only. c) PM generation only. d) Both (b) and (c)
- 8 In uniform quantization process
  - a) The step size remains same
     b) Step size varies according to the values of input signal
     c) The quantizer has linear charecteristics
     d) Both a and c are correct
- 9. One of the disadvantage of PCM is
  - a) It requires large bandwidth b) Very high noise c) Cannot be decoded easily
  - d) All the above
- 10.In Delta modulation
- a) One bit per sample is transmitted b) All of the coded bits used for sampling are transmitted c) The sampling size is fixed d) Both a and C are correct

#### 11.Granular noise occurs when

a) Step size is too small b) Step size is too large c) There is interference from the adjacent channel d) bandwidth is too large

#### 12.Matched Filter may be optimally used only for?

a)Gaussian noise b)Transit time noise c) Flicker d) All the above

#### 13. Regenerative repeater is used for?

- a) Eliminating noise b) Reconstruction of signals c) Transmission over long distance
- c) All the above

#### 14. The bandwidth of BFSK is ----- than BPSK

a) Lower b) Same c) Higher d) Not predictable

15.QPSK is a modulation scheme where each symbol consists of

a) 4 bits b) 2 bits c) I bit d) m bits

DSP

4. (a) 36

Description: Let the two sequences be M and N.

M = 40

N = 900

Number of DFT = 64

The number of smaller DTS required = L + M - 1 = Number of given DFT points

L + M - 1 = 64

L + 40 - 1 = 64

L = 25

Total blocks = N/L = 900/25 = 36

Hence, the number of smallest DFTs required to compute the linear convolution is 36.

5. (d) The output sequence is represented in bit-reversal order.

**Description:** The output sequence of the DIT-FFT is represented in regular order instead of bitreversal order.

6. (b) {0.5, 0, 0.5, 0}

Description: IDFT is given by:

x(n) = IDFT[X(k)]

$$x(n)=\frac{1}{N}\sum_{k=0}^{N-1}X(k)e^{\frac{j2\pi kn}{N}}$$

$$x(n) = \frac{1}{4} [X(0) + X(1)e^{\frac{j\pi n}{2}} + X(2)e^{j\pi n} + X(3)e^{\frac{j3\pi n}{2}}]$$

Step 1: For, n = 0

$$x(0) = \frac{1}{4} [x(0) + x(1) + x(2) + x(3)]$$

$$= \frac{1}{4}[1+0+1+0]$$

$$= 2/4$$

$$= 1/2$$

$$= 0.5$$

Step 2: For, n = 1

$$x(1) = \frac{1}{4} [x(0) + x(1) + x(2) + x(3)]$$

$$= \frac{1}{4}[1 + 0(j) + 1(-1) + 0(-j)]$$

$$=\frac{1}{4}[1+0-1+0]$$

= 0

Step 3: For, n = 2

$$x(2) = \frac{1}{4} [x(0) + x(1) + x(2) + x(3)]$$

$$= \frac{1}{4}[1 + 0(-1) + 1(1) + 0(-1)]$$

$$= \frac{1}{4}[1+0+1+0]$$

$$= 2/4$$

$$= 1/2$$

$$= 0.5$$

Step 4: For, n = 3

$$x(3) = \frac{1}{4} [x(0) + x(1) + x(2) + x(3)]$$

$$= \frac{1}{4}[1 + 0(-j) + 1(-1) + 0(j)]$$

$$= \frac{1}{4} [1 + 0 - 1 + 0]$$

=0

Thus,  $x(n) = \{0.5, 0, 0.5, 0\}$ 

#### 7.(d) All of the above

**Description:** Butterfly structure is an efficient structure that has various advantages, such as reducing complexity, involvement of less number of multiplications and additions. It also combines the result of small DFTs into large or vice versa.

8.c) The filters in the cascade are connected in parallel.

Description: The filters in the cascade realization are connected in series.

#### 9.: (a) Impulse invariant method

**Description:** The practical analog filters are not generally perfectly band-limited. Hence, the filter using the impulsive invariant method can cause such an aliasing effect in the filters.

10. (b) 
$$3/4$$
 y(n - 1) -  $1/8$  y(n - 2) + x(n) +  $1/3$ x(n - 1)

**Description:** The direct form-I is the structure formed after finding the z-transform of X(z) and Y(z), which is mentioned on both sides of the figure. Let's first determine X(z) and Y(z) and then their inverse Z-transform to find the equation of the discrete system.

#### Step 1: LHS

The left side is the X(z).

$$X(z)[1 + 1/3 z^{-1}] = W(z)$$

$$X(Z) + 1/3 z^{-1} X(z) = W(z)$$

The inverse can be represented as:

$$x(n) + 1/3x(n-1) = w(n)$$

#### Step 2: RHS

The right side is the Y(z).

$$Y(z) = 3/4 z^{-1} Y(z) - 1/8 z^{-2} Y(z) + W(z)$$

The inverse can be represented as:

$$y(n) = 3/4 y(n-1) - 1/8 y(n-2) + w(n)$$

Substituting the value of w(n) from step 1, we get:

$$y(n) = 3/4 y(n-1) - 1/8 y(n-2) + x(n) + 1/3x(n-1)$$

It is the discrete equation of the given system.

11. (a) Direct form- I

**Description:** There are two types of direct form, direct form I and direct form-II. Both forms can be used for IIR (Infinite Impulse Response) filters.

14. (b) Even

**Description:** Let x1(n) and x2(n) be the two signals.

If both these signals are odd, x1(-n) = -x1(n) and x2(-n) = -x2(n)

If a signal is even, x(-n) = x(n)

$$x(-n) = x1(-n) \cdot x2(-n)$$

$$x(-n) = -x1(n) - x2(n)$$

$$x(-n) = x1(n). x2(n)$$

It means that x(-n) = x(n), which is even.

Hence, the product of two odd signals is even.

15.(b) Causal

#### Description:

Step 1: The system is causal if its output depends only on the past and present inputs. Let's check its causality.

We will check the value of y(n) for different values of n.

For,

$$n=0$$
,  $y(0) = x(0) + 1/x(-1)$ 

$$n = 1$$
,  $y(1) = x(1) + 1/x(0)$ 

Thus, the system is causal.

Step 2: The system that satisfies the superposition theorem can be classified as the linear system.

$$Y1(n) = x1(n) + 1/x1(n-1)$$

$$Y2(n) = x2(n) + 1/x2(n-1)$$

To satisfy the linearity, ay1(n) + by2(n) = ax1(n) + bx2(n)

LHS

$$ay1(n) + by2(n) = a [x1(n) + 1/x1(n-1)] + b [x2(n) + 1/x2(n-1)]$$

$$ay1(n) + by2(n) = ax1(n) + bx2(n) + a/x1(n-1) + b/x2(n-1)$$

It is not equal to RHS

Hence, the system is non-linear.

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$$Y1(n) = x1(n) + 1/x1(n-1)$$

$$Y2(n) = x2(n) + 1/x2(n-1)$$

To satisfy the linearity, ay1(n) + by2(n) = ax1(n) + bx2(n)

LHS

$$ay1(n) + by2(n) = a [x1(n) + 1/x1(n-1)] + b [x2(n) + 1/x2(n-1)]$$

$$ay1(n) + by2(n) = ax1(n) + bx2(n) + a/x1(n-1) + b/x2(n-1)$$

It is not equal to RHS

Hence, the system is non-linear.

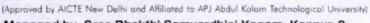
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Managed by Sree Bhakthi Samvardhini Yogam, Kannur-2.



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### **Class Record**

# THEORY

Department ELECTRICAL AND ELECTRO	NICS ENGINEERING
Faculty PRABHA CHANDRAN	
Academic Year 2021-2022	
Branch (EEE	Semester 6
Course (FET 308: COMPREHENSIVE )	PRINCIPAL
	SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY PAYYANUR, KANNUR

#### Class Attendance and Assessment

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SI.No	Reg. No.	Name	Da	te	30	7	4	28	4	11		
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2.	SNC19EE002	DEVI KEERTHANA T.P.			X	X	X	X	χ	X		
3.	SNCIGEECOS	VAISHNAY T.Y.			X	X	X	X	X	×		
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# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR

#### MODEL QUESTION PAPER EET308 COMPREHENSIVE COURSE WORK

Max Marks: 100

**Duration: 1Hrs** 

#### CIRCUITS AND NETWORKS

- Superposition theorem cannot be applied in linear circuits to find out the following variable
   A. voltage B. current C. power D. none of these
- 2. source impedance of a non- ideal voltage source is  $Z_S = 6+j \ 8 \ \Omega$  and is connected to a resistive load. W hat should be the load for maximum power transfer. A.  $6 \ \Omega$  B.  $8 \ \Omega$  C  $10 \ \Omega$  D.  $14 \ \Omega$
- 3. there are 4 branches and 3 nodes then number of links in a co-tree are?

4.two -port network is represented by the following equations,  $I_1=V_1-0.5V_2$ ,  $I_2=-V_1+V_2$ , Z parameters are given by Z=

A. 
$$Z = \begin{bmatrix} 1 & -0.5 \\ -1 & 1 \end{bmatrix}$$
, B.  $Z = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix}$ , C.  $Z = \begin{bmatrix} 1 & -2 \\ -1 & 1 \end{bmatrix}$  D.  $Z = \begin{bmatrix} 2 & 1 \\ 2 & 2 \end{bmatrix}$ 

- 5. The line A to neutral voltage is 10<150 V for a balance three phase star connected load with phase sequence ABC. The voltage of line B with respect to line C is given by
- a) 10√3<105° V
- b) 10<1050 V
- c)  $10\sqrt{3} < 750 \text{ V}$
- d) -10√3<90<sub>0</sub> V
- 6. The average power delivered to an impedance (4-j3) $\Omega$  by a current 5cos(100 $\pi\pi$ t+100)A is
- a) 44.2 W
- b) 50 W
- c) 62.5 W
- d) 125 W

1 z | 2 = 5

VI = Ja Vph

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	DC MACHINES AND TRANSFORMERS
1	The resistance of the transformer referred to low voltage side of a 240/120 V 1-phase transformer with R1 =0.1 ohm and R2=0.03 ohm is  A. 0.055 ohm  B. 0.43 ohm  C. 0.22 ohm  D. 0.1075 ohm
2	Retardation test on dc shunt motor is conducted to determine  X. stray loss only,  B Stray loss and moment of inertia,  C. Temperature rise.  D. effect of flux distortion on iron loss
	Retardation test on dc shunt motor is conducted to determine  A. stray loss only,  B. Stray loss and moment of inertia,  C. Tempe rature rise.  D. effect of flux distortion on iron loss
4	DC Series generator is used for  A. charging batteries, B. booster in distribution systems, C. Arc welding D. Lamp loads
5	The equalizer connections are used for  A. Lap winding  B. Wave winding  C. Wave winding with dummy coils  D. Not for dc windings
6	A 4-pole dc machine is having double layer lap winding arranged in 80 slots. Winding resistance is 0.2 $\Omega$ per conductor. Determine the armature resistance (Ra). A. 8 ohms B. 4 ohms C. 2 ohms D. 1 ohm
7	For a 1-phase transformer the maximum regulation occurs at 0.5 pf lagging, then the zero regulation occurs at a power factor equals to  A. upf B. 0.5 lead C. 0.707 lead D. 0.866 lead
	Which among the following statement regarding a star-delta 3 phase transformer is not true  A. no problem with third harmonic components  B. unbalanced loads can be handled  C. can operate this connection in parallel with delta- delta  D. there is a 30 Degree phase shift between Secondary to Primary phase voltages
	9. The DC motor which can provide zero speed regulation at full load without any controller is a) Series b) Shunt  Dr. LEENA A V PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY PAYYANUR, KANNUR

- c) Cumulatively compound d) Differentially compound
- 10. For a single phase, two winding transformer, the supply frequency and voltage are both increased by 10%. The percentage changes in the hysteresis and eddy current loss, respectively
- (a) 10 and 21
  - b) -10 and 21
  - c) 21 and 10
  - d) -21 and 10
  - 11. Match the following

List I-Performance Variables

- A. Armature emf (E)
- B. Developed Torque (T)
- C. Developed Power (P)

List II-Proportional to

- 1. Flux (Φ), speed (ω), Armature Current(Ia)
- 2. Φ and ω only
- 3. ø and Ia only
- 4. Ia and  $\omega$  only
- 5. la only

Choices:

ABC

- a) 3 3 1
- b) 254
- c) 354
- d) 231

#### DIGITAL ELECTRONICS

- 1 A 4 bit pattern that will produce the same pattern when 2's complement is taken.
- B. 0010
- C. 0100 D. 1000
- <sup>2</sup> The logical expression  $F=A + \bar{A}B$  can be simplified to
  - A. F=AB, B. F=A+B
- C. F = 1 D.  $F = \bar{A} + B$
- 3 In a one-digit BCD adder, the number of bits in the output is C.

- 5 D.
- 4 If D FF is modified with switch -tail ring counter connection, the circuit becomes A. SR FF, B. D FF C. JK FF D. T FF
- 5 The number of Flip Flops required to build Mod- 13 counter is
  - A. 2
- B. 3
- C. 4
- D. 5
- 6 The capacity of a Memory chip is 8192 Bytes. The number of address lines required are
  - A. 11 B. 12
- C. 13
- The resistor corresponding to the LSB of a 4-bit Weighted be

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Then the value of resistor assigned to MSB will be

- A. 512 k ohm
- B. 64 k ohm C. 16 k ohm D. 8 k ohm
- 8. The SOP (sum of products) form of a Boolean function is ∑(0, 1, 3, 7, 11), where inputs are A, B, C, D (A is MSB and D is LSB). The equivalent minimized expression of the function is a) (B'+C)(A'+C)(A'+B')(C'+D)
- b) (B'+C)(A'+C)(A'+C')(C'+D)
- c) (B'+C)(A'+C)(A'+C')(C'+D')
- d) (B'+C)(A+B')(A'+B')(C'+D)
- 9. A cascade of three identical modulo-5 counters has an overall modulus of
- a) 5
- b) 25
- c) 125
- d) 625
- 10 The octal equivalent of the HEX number AB.CD is
- a) 253.314
- b) 253.632
- c) 526.314
- d) 526.632

#### POWER SYSTEMS I

- 1. Efficiency of thermal power plant is?
- Corona losses are minimized when
- a) Conductor size is reduced
- Smoothness of the conductor is reduced
- c) Sharp points are provided in the line hardware
- d) Current density in the conductors is reduced
  - 3. Keeping in view the cost and overall effectiveness, the following Circuit Breaker is best suited for capacitor bank switching
- a) Vacuum
- b) Air Blast
- c) SF6
- d) Oil
- 4. The horizontally placed conductors of a single phase line operating at the having

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outside diameter of 1.6cm and the spacing between centres of the conductors is 6m. The permittivity of free space is 8.854 x 10-12 F/m. The capacitance to ground per kilometre of each line is

a) 4.2 x 10-9 F

b)4.2 x 10-12 F

c)8.4 x 10-9 F

d)8.4 x 10-12 F

#### SIGNALS AND SYSTEMS

- 1. The Laplace transform of a circuit current is  $I(s) = (5s^2+2s+6)/[s(s^2+3s+3)]$ . The initial value i(o) is
- A. 2 A B. 5A C. 6A D. Infinity
  - A circuit with resistor, inductor and capacitor in series is resonant at f0 Hz. If all the component values are now doubled, the new resonant frequency is
  - a) 2 fo
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  - c) f<sub>0</sub>/2
  - d) f<sub>0</sub>/4
- 3. Consider a continuous time system with input x(t) and output y(t) given by
- $y(t)=x(t)\cos(t)$ . This system is
- a)Linear and time invariant
- b)Non-linear and time invariant
- c)Linear and time varying
- d)Non-linear time varying
- 4. Signal Flow Graph is used to obtain
- a)Stability of the system
- b)Transfer Function of a system
- c)Controllability of a system
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- 5. The steady state error due to a step input for Type 1 system is

a)Zero

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- c)1

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#### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR

#### MODEL QUESTION PAPER **EET308** COMPREHENSIVE COURSE WORK

Max Marks: 100

**Duration: 1Hrs** 

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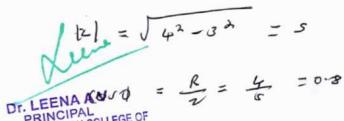
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Ir = 5/12 Ap = (5) 2 V X NO 369 P = S word = Ix 2 20000

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Dr. LEENA A V 7 The resistor corresponding to the LSB of a 4-bit Weighted resistor TRACLE 64 K

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# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, DEPARTMENT OF MECHANICAL ENGINEERING STUDENTS NAME LIST(2019-2023)

ROLL NO	REGISTER	NAME OF STUDENT
1	SNC19ME001	ADARSH P K
2	SNC19ME002	ADWAIDH BALAN
4	SNC19ME004	ANURAG A
5	SNC19ME005	ARSH IBRAHIM
6	SNC19ME006	ASWANTH C
7	SNC19ME007	ATHUL. B
8	SNC19ME008	BIPIN.K
9	SNC19ME009	FARHAN.C
10	SNC19ME010	JASIN.P
11	SNC19ME011	MOHAMMED AAFIL ISMAYIL M K
12	SNC19ME012	MOHAMMED RAMADAN ANWAR
13	SNC19ME013	MRIDUL.C
14	SNC19ME014	NITHIN.A
15	SNC19ME015	SAFVAN. I M
16	SNC19ME016	SANDESH K DINESH
17	SNC19ME017	SREEHARI S NAMBIAR
18	SNC19ME018	VIDYASAGAR.P

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### **Sree Narayana Guru College of Engineering & Technology**

P.O. Chalakode, Payyanur - 670 307, Kannur Dist., Kerala State.

(Approved by AICTE New Delhi and Affiliated to APJ Abdul Kalam Technological University)

Managed by Sree Bhakthi Samvardhini Yogam, Kannur-2.



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Vision

A knowledge society promoting human excellence and enlightenment through effective education

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To provide technical education of the highest quality and standard of excellence for socio-economic progess embedded in clearly articulated values and supported by commitments

### **Class Record**

# THEORY

Department CIVIL ENGINEERING
Faculty Dr. Susan ABRAHAM
Academic Year 2021-2022
Branch CIVIL ENGG Semester Semester
Course CET 308 COMPREHENSIVE COURSE DI LEENAAV
SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY ENGINEERING & TECHNOLOGY ENGINEERING KANNUR

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11.	X	X	X	X	X	4						
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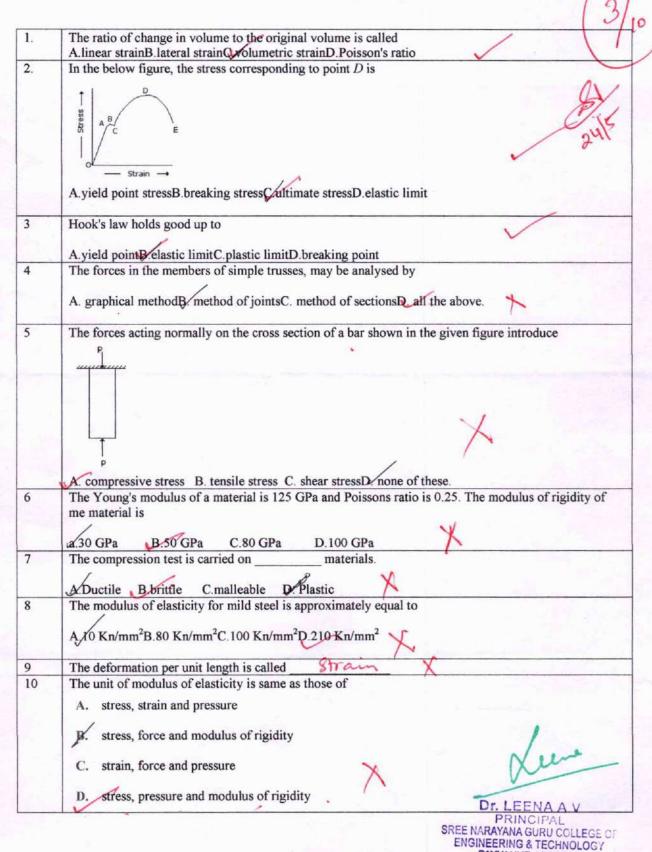
SREE MARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY PAYYANUR, KANNUR



# SREE NARAYANA GURU COLLEGE OF ENGINEERING. TECHNOLOGY DEPARTMENT OF CIVIL ENGINEERING SEMESTER S6 CE

CET308 COMPREHENSIVE COURSE WORK

MECHANICS OF SOLIDS QUESTIONS



PAYYANUR, KANNUR

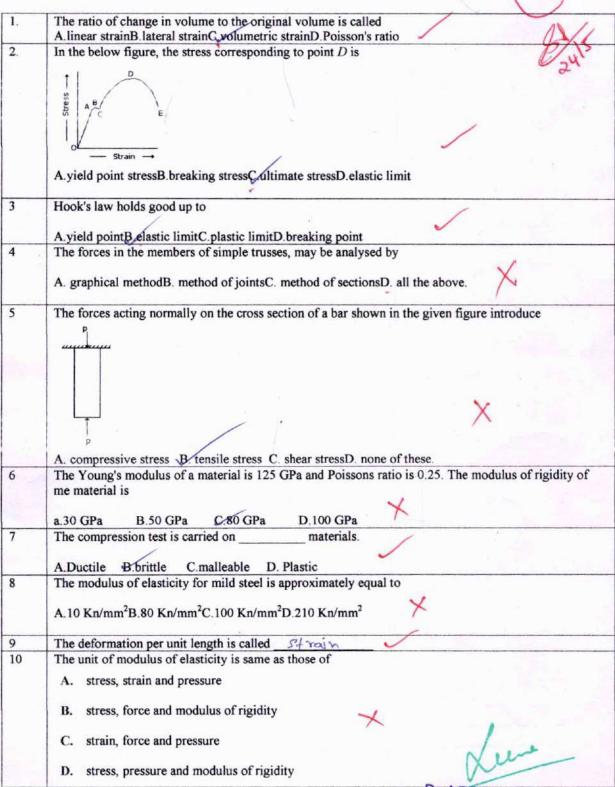


# SREE NARAYANA GURU COLLEGE OF ENGINEERING (SENESTER SCORE

SEMESTER S6 CE

CET308 COMPREHENSIVE COURSE WORK

#### MECHANICS OF SOLIDS QUESTIONS



Kejihna Prasag. SNC19(E012



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF CIVIL ENGINEERING

### SEMESTER S6 CE CET308 COMPREHENSIVE COURSE WORK

### MECHANICS OF SOLIDS QUESTIONS



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D. stress, pressure and modulus of rigidity

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#### SEMESTER S6 CE

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#### MECHANICS OF SOLIDS QUESTIONS



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	B. stress, force and modulus of rigidity
	C strain, force and pressure
	D. stress, pressure and modulus of rigidity  Dr. LEENA A V

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#### MECHANICS OF SOLIDS QUESTIONS

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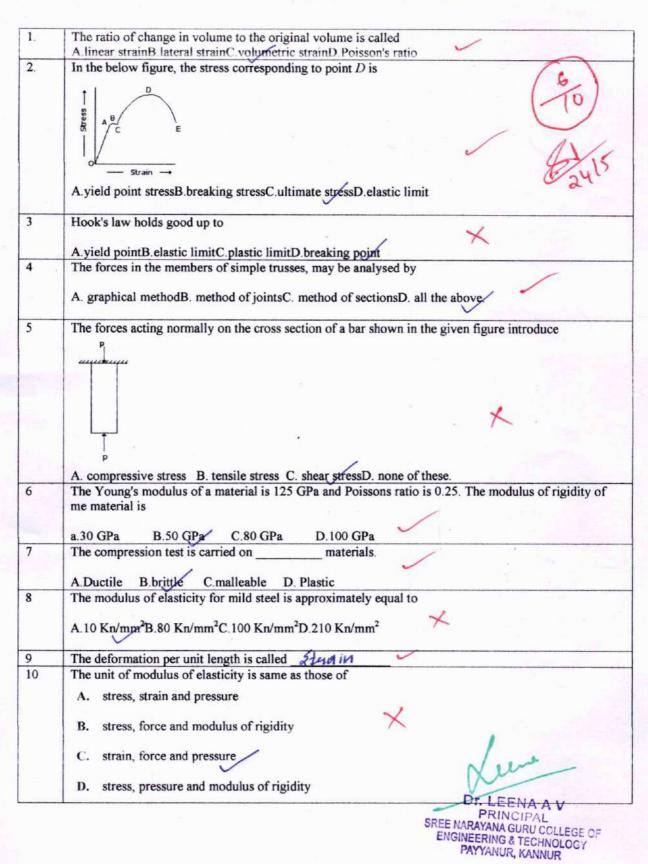
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CET308 COMPREHENSIVE COURSE WORK

#### MECHANICS OF SOLIDS QUESTIONS





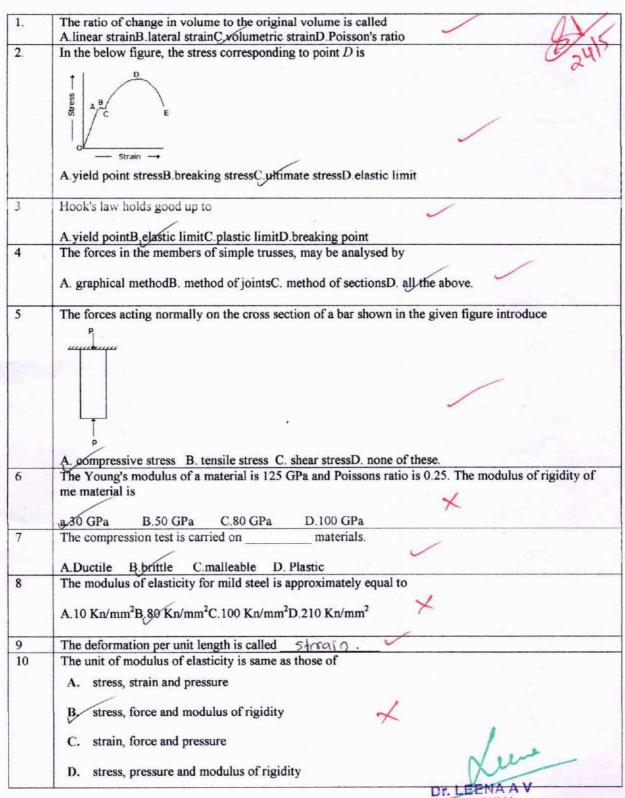
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#### MECHANICS OF SOLIDS QUESTIONS





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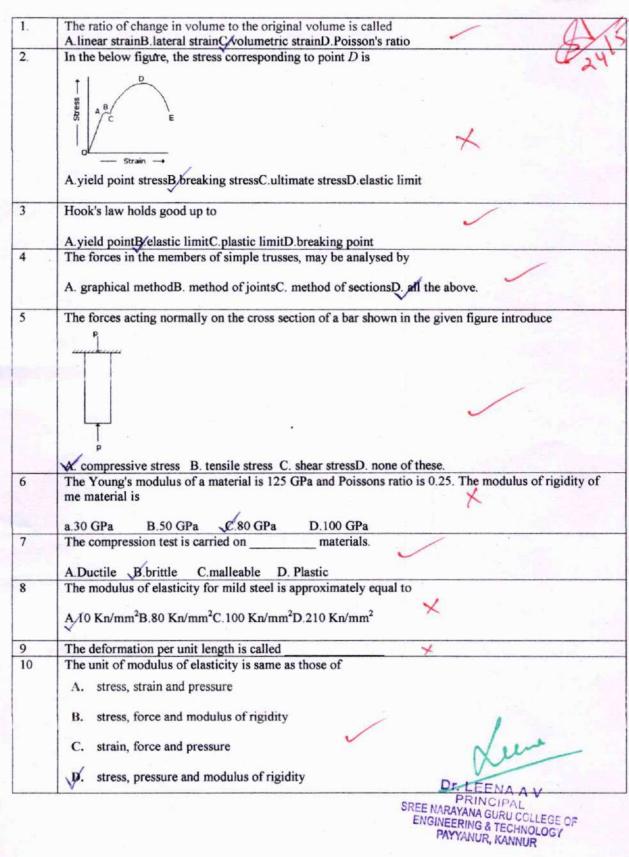
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#### SEMESTER S6 CE

#### CET308 COMPREHENSIVE COURSE WORK

#### MECHANICS OF SOLIDS QUESTIONS



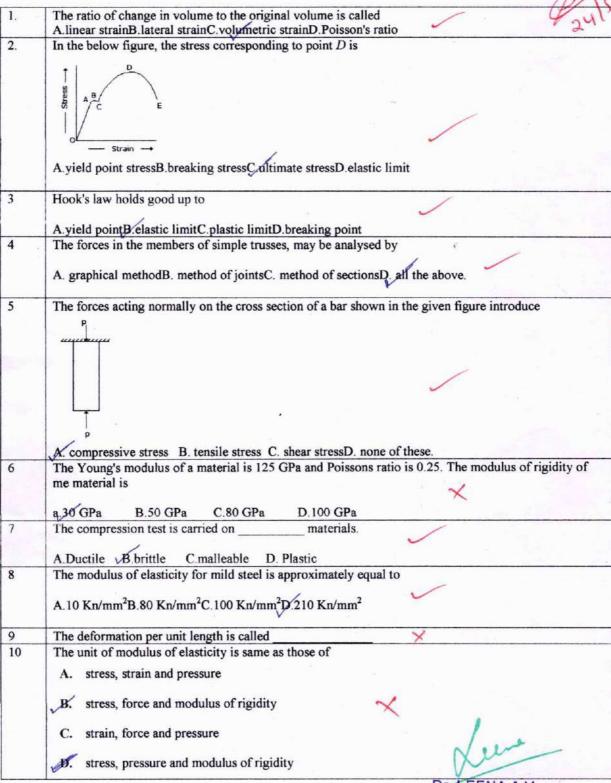




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#### MECHANICS OF SOLIDS QUESTIONS



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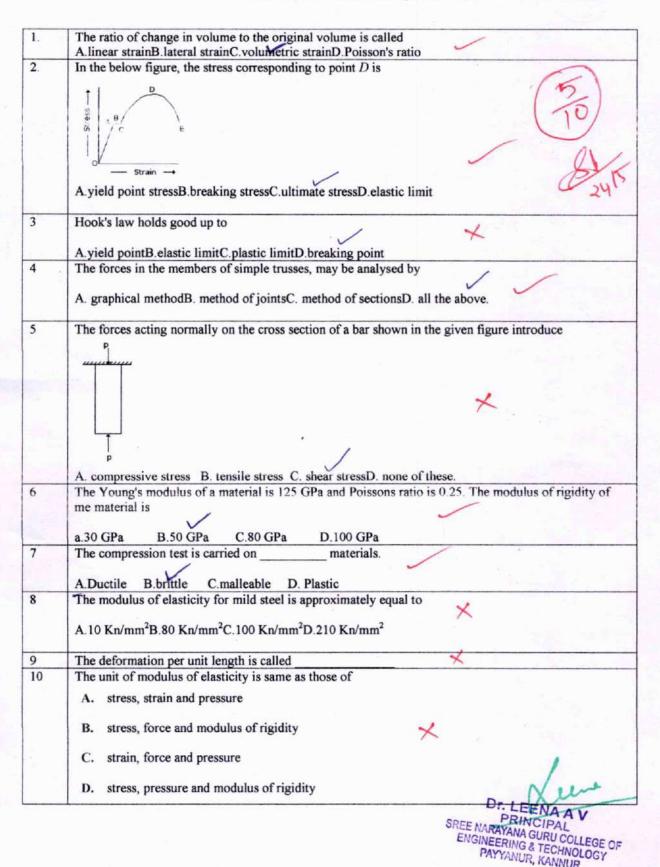
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#### SEMESTER S6 CE

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#### MECHANICS OF SOLIDS QUESTIONS



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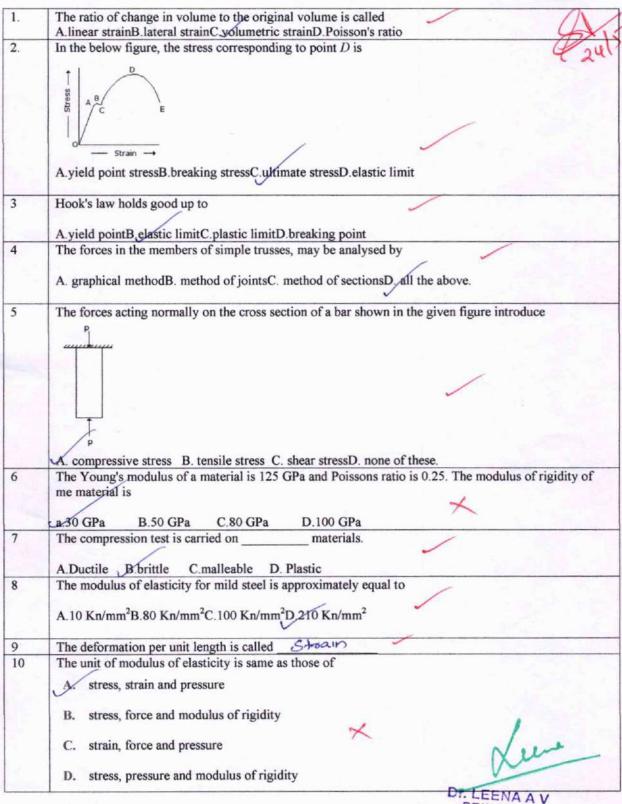
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#### SEMESTER S6 CE

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#### MECHANICS OF SOLIDS QUESTIONS







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#### SEMESTER S6 CE

CET308 COMPREHENSIVE COURSE WORK

MECHANICS OF SOLIDS QUESTIONS



1.	The action of th
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2.	In the below figure, the stress corresponding to point D is
	• I D
	A B C E
	— Strain →
	A.yield point stressB.breaking stressC.altimate stressD.elastic limit
3	Hook's law holds good up to
	7.
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### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

#### DEPARTMENT OF CIVIL ENGINEERING SEMESTER S6 CE

#### CET308 COMPREHENSIVE COURSE WORK

#### MECHANICS OF SOLIDS QUESTIONS



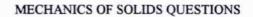
1.	The ratio of change in volume to the original volume is called
	A.linear strainB.lateral strainC.volumetric strainD.Poisson's ratio
2.	In the below figure, the stress corresponding to point D is
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	Strain→
	A.yield point stressB.breaking stressC.ultimate stressD.elastic limit
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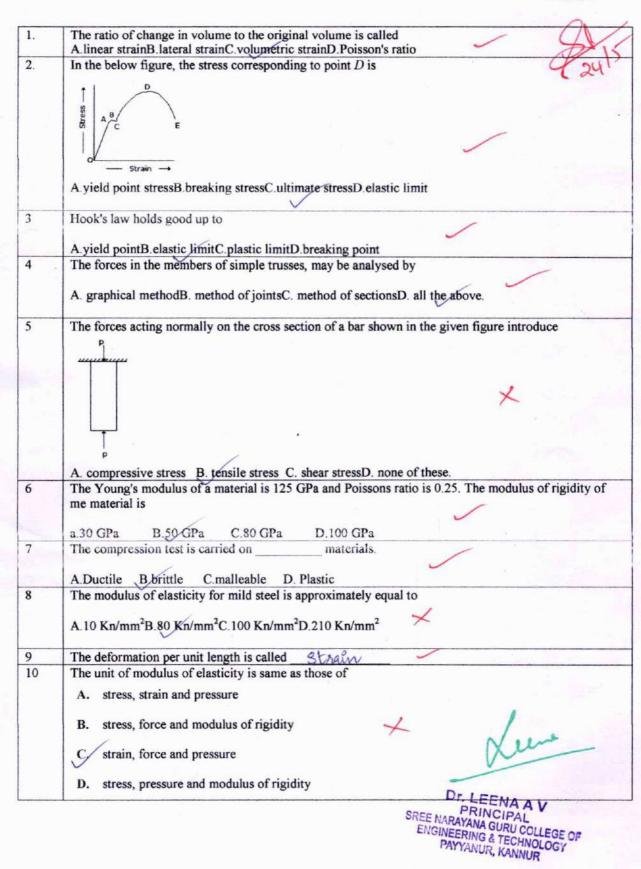
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#### DEPARTMENT OF CIVIL ENGINEERING SEMESTER S6 CE

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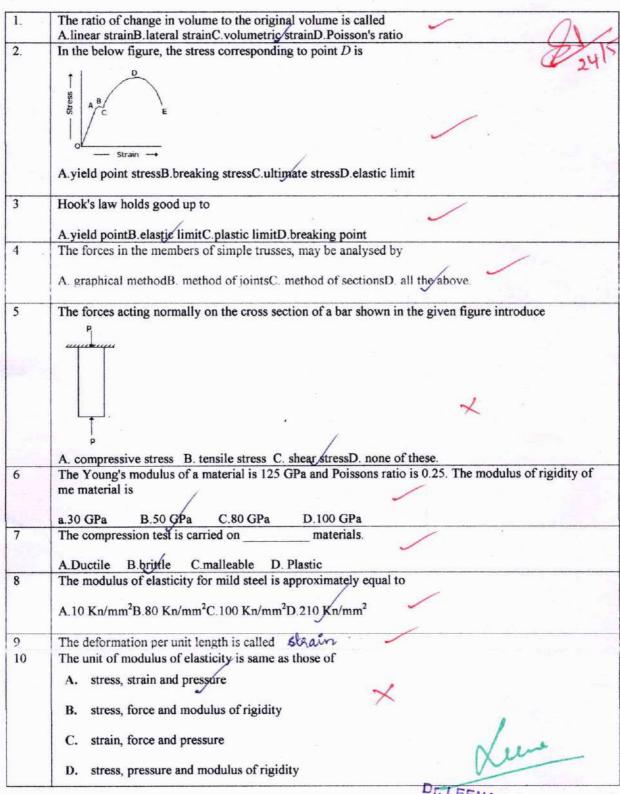
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#### MECHANICS OF SOLIDS QUESTIONS





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	C. strain, force and pressure
1	D. stress, pressure and modulus of rigidity  Dr. LEENA A V  SREE NARAY AND
	ENGINEERING & TECHNOLOGIE
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# SREE NARAYANA GURU COLLEGE OF ENGINEERING. D TECHNOLOGY SEMESTER S6 CE

CET308 COMPREHENSIVE COURSE WORK-MECHANICS OF SOLIDS Test 2

1.	Maximum Shearing stress in a beam is at
-	a) Neutral axis
	b) Extreme fibres
	c) Mid span
	d) Action of loading
2.	At the neutral axis, bending stress is
	a) Minimum
	b) Maximum
	c) Zero
	d) Constant
3	What are the units of flexural rigidity?
	a) Nm2
	b) Nm
	c) N/m
	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
	a) 5.4 × 106 mm3
	b) 6.2 × 106 mm3
	c) 5.5 × 106 mm3
	d) 6.4 × 106 mm3
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	a) w×l
	b) w
3.7	c) w/l 🗸
	d) w+l
6	Sagging, the bending moment occurs at the of the beam.
	a) At supports
	b) Mid span
	c) Point of contraflexure
	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume I = 2m].
	a) Rectangular b) Trapezoidal c) Triangular d) Square
8	What are the units of axial stiffness?
	a) m3 b) m2 c) N/ m d) -m
9	strength is caused by a moment of resistance offered by a section.
	a) Shear
	b) Flexural
	c) Axial
	d) Longitudinal
10	A Steel rod 200 mm diameter is to be bent into a circular arc section. Find radius of curvature. Take f =
	$120N/mm2 \& E = 2 \times 105 N/mm2.$
	a) 134m b) 166m c) 162m d) 174m
11	Which of these are types of normal stresses?
	a) Tensile and compressive stresses
	b) Tensile and thermal stresses
	c) Shear and bending
	d) Compressive and plane stresses
12	The extremities of any diameter on Mohr's circle represent
	(A) Principal stresses
	(B) Normal stresses on planes at 45°
	(C) Shear stresses on planes at 45°
	(D) Normal and shear stresses on a plane
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CET308 COMPREHENSIVE COURSE WORK-MECHANICS OF SOLIDS Test 2

1.	Maximum Shearing stress in a beam is at
	a) Neutral axis
	b) Extreme fibres
	c) Mid span
	d) Action of loading
2.	At the neutral axis, bending stress is
	a) Minimum
	b) Maximum
	cerzero
	d) Constant
3	What are the units of flexural rigidity?
	n) Nm2
	b) Nm
	c) N/m
	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
	a) 5.4 × 106 mm3
	b) 6.2 × 106 mm3
	c) 5.5 × 106 mm3
	d) 6.4 × 106 mm3
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	a) w×l
	(b) w
	c) w/l
	d) w+l
6	Sagging, the bending moment occurs at the of the beam.
	At supports
	b) Mid span
	c) Point of contraflexure
	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume 1 = 2m].
	a) Rectangular b) Trapezoidal c) Triangular d) Square
8	What are the units of axial stiffness?
	a) m3 b) m2 dy N/ m d) -m
9	strength is caused by a moment of resistance offered by a section.
	) a) Shear
	b) Flexural
	c) Axial
	d) Longitudinal
10	A Steel rod 200 mm diameter is to be bent into a circular arc section. Find radius of curvature. Take f =
7.880	$120 \text{N/mm} 2 \& \text{E} = 2 \times 105 \text{ N/mm} 2.$
	a) 134m b) 166m b) 162m d) 174m
11	Which of these are types of normal stresses?
2.5	Tensile and compressive stresses
	b) Tensile and thermal stresses
	c) Shear and bending
	d) Compressive and plane stresses
12	The extremities of any diameter on Mohr's circle represent
	(A) Principal stresses
	(B) Normal stresses on planes at 45°
	(C) Shear stresses on planes at 45°
	(D) Normal and shear stresses on a plane  Dr. LEENAAV
	PRINCIPAL

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a) Neutral axis b) Extreme fibres c) Mid span d) Action of loading 2. At the neutral axis, bending stress is a) Minimum b) Maximum s) Zero d) Constant  3 What are the units of flexural rigidity? a) Nm2 b) Nm c) N/m d) m/N3  4 Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm. a) 5.4 × 106 mm3 b) 6.2 × 106 mm3 c) 5.5 × 106 mm3 d) 6.4 × 1	1.	Maximum Shearing stress in a beam is at
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df Action of loading  At the neutral axis, bending stress is		
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Brayag Buabhakanan SNC19CE 017 56-17



## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY SEMESTER S6 CE

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1.	Maximum Shearing stress in a beam is at
	a) Neutral axis
	b) Extreme fibres
	c) Mid span
^	d) Action of loading
2.	At the neutral axis, bending stress is
	a) Minimum
	b) Maximum
	c) Zero
2	d) Constant
3	What are the units of flexural rigidity?
	a) Nm2
	b) Nm
	c) N/m
4	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
	a) 5.4 × 106 mm3
	b) 6.2 × 106 mm <sup>3</sup>
	c) 5.5 × 106 mm3
-	d) 6.4 × 106 mm <sup>3</sup>
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	a) w×!
	b) w
	c) w/l
-	d) w+l Sagging, the bending moment occurs at the of the beam.
6	
	a) At supports b) Mid span
	c) Point of contraflexure
	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume I = 2m].
•	That will be the tariation in Strip for the diagram [ insume :
	a) Rectangular b) Trapezoidal c) Triangular d) Square
8	What are the units of axial stiffness?
	a) m3/b) m2 c) N/m d) -m
0	strength is caused by a moment of resistance offered by a section.
	a) Chear
	b) Flexuial
	c) Axial
	d) Longitudinal
10	A Steel rod 200 mm diameter is to be bent into a circular arc section. Find radius of curvature. Take f =
	$120 \text{N/mm} 2 \& \text{E} = 2 \times 105 \text{ N/mm} 2.$
	a) 134m b) 166m c) 162m d) 174m
11	Which of these are types of normal stresses?
	a) Tensile and compressive stresses
	b) Tensile and thermal stresses
	c) Shear and bending/
	d) Compressive and plane stresses
12	The extremities of any diameter on Mohr's circle represent
155.50	(A) Principal stresses
17	(B) Normal stresses on planes at 45°
	(C) Shear stresses on planes at 45° PRINCIPAL
	(D) Normal and shear stresses on a plane SREE NARAYANA GURU COLLEGE OF
	ENGINEERING & TECHNOLOGY PAYYANUR, KANNUR
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a) Neutral axis b) Extreme fibres c) Mid span d) Action of loading 2. At the neutral axis, bending stress is a) Minimum b) Maximum c) Zero d) Constant  What are the units of flexural rigidity? a) Nm2 b) Nm c) N/m d) m/N3  4. Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm. a) 5.4 × 106 mm3 b) 6.2 × 106 mm3 c) 5.5 × 106 mm3 d) 6.4 × 106 mm3 b) 6.2 × 106 mm3 c) 3.5 × 106 mm3 d) 6.4 victual to the maximum shear force, when a cantilever beam is loaded with udl throughout? a) wvl b) w c) wvl d) point of contraflexure d) Point of	1.	Maximum Shearing stress in a beam is at	
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SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY		(D) Normal and shear stresses on a plane PRINCIPA	L
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1.	Maximum Shearing stress in a beam is at
	a) Neutral axis
	b) Extreme fibres
	c) Mid span
	d) Action of loading
2.	At the neutral axis, bending stress is
	a) Minimum
	b) Maximum
	c) Zero
	d) Constant
3	What are the units of flexural rigidity?
	a) Nm2
	b) Nm
	c) N/m
	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
	a) 5.4 × 106 mm3
	b) 6.2 × 106 mm3
	c) 5.5 × 106 mm3
	d) 6.4 × 106 mm3
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	ay w×l
	b) w
	c) w/l
,	d) w+l
6	Sagging, the bending moment occurs at the of the beam.
	a) At supports b) Mid span
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	ENGINEERING

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### SREE NARAYANA GURU COLLEGE OF ENGINEERING . & TECHNOLOGY SEMESTER S6 CE

### CET308 COMPREHENSIVE COURSE WORK-MECHANICS OF SOLIDS Test 2

	TV : 01 :
1.	Maximum Shearing stress in a beam is at
	a) Neutral axis b) Extreme fibres
	c) Mid span
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7	a) 5.4 × 106 mm3
	b) 6.2 × 106 mm3
	c) 5.5 × 106 mm3
	d) 6.4 × 106 mm3
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	a) w×1
	b) w
	c) w/l
	d) w+l
6	Sagging, the bending moment occurs at the of the beam.
	a) At supports
	b) Mid span
	c) Point of contraflexure
	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume I = 2m].
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	(C) Shear stresses on planes at 45°
	(D) Normal and shear stresses on a plane  Dr. LEENA A V PRINCIPAL

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### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY SEMESTER S6 CE

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	ENGINEERING & TECHNOLOGY
	PAYYANUR, KANNUR



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	d) m/N3	
4	Calculate the modulus of section of rectangle beam of size 240 m	$z = \frac{2}{y} - \frac{54^8}{12}$
	a) 5.4 × 106 mm3	Z= = - 10
		had?
	c) 5.5 × 106 mm3	half de
	d) 6.4 × 106 mm3	6
5	What is the maximum shear force, when a cantilever beam is load	dad with will the auch and?
3	a) w×1	ded with udi throughout?
	b) w	
	c) w/l	
,	d) w+l	
6	Sagging, the bending moment occurs at the of the beam.	
	a) At supports.	
	b) Mid span	
	c) Point of contraflexure	
	d) Point of emergence	
7	What will be the variation in BMD for the diagram? [Assume I =	· 2m].
10	a) Rectangular b) Trapezoidal c) Triangular/d) Square	
8	What are the units of axial stiffness?	
	a) m3 b) m2 c) N/ m d) -m	
9	strength is caused by a moment of resistance offered by	a section.
	a) Shear	
	b) Flexural	
	c) Axial	
	d) Longitudinal	
10	A Steel rod 200 mm diameter is to be bent into a circular arc sect	ion. Find radius of curvature. Take f -
	120N/mm2 & E = 2×105 N/mm2.	
	12017/min2 & $E = 2\times103$ 17/min2. $\frac{M}{2} = \frac{E}{R} = \frac{1}{4}$ R =	Ex4 .
	a) 134m b) 166m c) 162m d) 174m	4
11	Which of these are types of normal stresses?	
	a) Tensile and compressive stresses	
	b) Tensile and thermal stresses	
	c) Shear and bending	/
	d) Compressive and plane stresses	N/ oland
12	The extremities of any diameter on Mohr's circle represent	X
12		V
	(A) Principal stresses on planes at 45°	
	(B) Normal stresses on planes at 45°	Dr. LEENA A V
	(C) Shear stresses on planes at 45°	PRINCIPAL
	(D) Normal and shear stresses on a plane	SREE NARAYANA GURU COLLEGE OF
		ENGINEERING & TECHNOLOGY
		PAYYANUR, KANNUR



1.	Maximum Shearing stress in a beam is at
	a) Neutral axis
	b) Extreme fibres
	c) Mid span
	d) Action of loading
2.	At the neutral axis, bending stress is
	a) Minimum
	b) Maximum
	c) Zero
	d) Constant
3	What are the units of flexural rigidity?
	a) Nm2
	b) Nm
	c) N/m
	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
V T	a) 5.4 × 106 mm3
	b) 6.2 × 106 mm3
	c) 5.5 × 106 mm3
	d) 6.4 × 106 mm3
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	a) w×l
	b) w
	c) w/l
	d) w+l
6	Sagging, the bending moment occurs at the of the beam.
	a) At supports
	b) Mid span
	c) Point of contraflexure
	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume l = 2m].
	a) Rectangular b) Trapezoidal c) Triangular d) Square
8	What are the units of axial stiffness?
	a) m3 b) m2 c) N/ m d) -m
9	strength is caused by a moment of resistance offered by a section.
	a) Shear
	b) Flexural
	c) Axial
M.	d) Longitudinal
10	A Steel rod 200 mm diameter is to be bent into a circular arc section. Find radius of curvature. Take f =
	$120N/mm2 \& E = 2 \times 105 N/mm2.$
	a) 134m b) 166m c) 162m d) 174m
11	Which of these are types of normal stresses?
	a) Tensile and compressive stresses
	b) Tensile and thermal stresses
	c) Shear and bending
	d) Compressive and plane stresses
12	The extremities of any diameter on Mohr's circle represent
	(A) Principal stresses
	(B) Normal stresses on planes at 45°
	(C) Shear stresses on planes at 45° PRINCIPAL
	(D) Normal and shear stresses on a plane  SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY
	PAYYANUR, KANNUR



1.	Maximum Shearing stress in a beam is at	
	a) Neutral axis	
	b) Extreme fibres	
	c) Mid span	
	d Action of loading	
2.	At the neutral axis, bending stress is	
	a) Minimum	
	b) Maximum	
	g) Zero	
	d) Constant	
3	What are the units of flexural rigidity?	ALCOHOLD TO THE
3	Nm2	
	b) Nm	
- v .	c) N/m	
37. 137		
-	d) m/N3	400
4	Calculate the modulus of section of rectangle beam of size 240 m	nm × 400 mm.
	a) 5.4 × 106 mm3	
	b) 6.2 × 106 mm3	
	\$75.5 × 106 mm3	
	d) 6.4 × 106 mm3	The second secon
5	What is the maximum shear force, when a cantilever beam is load	ded with udl throughout?
-	(a) w×1	
21	b) w	
1.52	c) w/l	
	d) w+l	
6	Sagging, the bending moment occurs at the of the beam.	
	a) At supports	
100	b) Mid span	
	Point of contraflexure	
	d) Point of emergence	
7	What will be the variation in BMD for the diagram? [Assume I =	- 2ml
'	What will be the variation in bivib for the diagram? [Assume 1	- 2mj.
	a) Rectangular b) Trapezoidal c) Triangular d) Square	
0		
8	What are the units of axial stiffness?	
	a) m3 b) m2 c) N/ m d) -m	
9	strength is caused by a moment of resistance offered by	a section.
	(a) Shear	
	b) Flexural	
	c) Axial	
	d) Longitudinal	
10	A Steel rod 200 mm diameter is to be bent into a circular arc sect	ion. Find radius of curvature. Take f =
	$120N/mm2 \& E = 2 \times 105 N/mm2.$	
	a) 134m,b) 166m c) 162m d) 174m	
11	Which of these are types of normal stresses?	
	a) Tensile and compressive stresses	
	b) Tensile and thermal stresses	
	c) Shear and bending	
	d) Compressive and plane stresses	
12	The extremities of any diameter on Mohr's circle represent	
12		2/12
	(A) Principal stresses	1X
	(B) Normal stresses on planes at 45°	- 1 - 2 - 2 - 2 - 2
	(C) Shear stresses on planes at 45°	Dr. LEENA A V
	(D) Normal and shear stresses on a plane	PRINCIPAL SREE NARAYANA GURU COLLEGE OF
		ENGINEERING & TECHNOLOGY
		PAYYANUR, KANNUR
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### SREE NARAYANA GURU COLLEGE OF ENGINEERING. & TECHNOLOGY SEMESTER S6 CE

### CET308 COMPREHENSIVE COURSE WORK-MECHANICS OF SOLIDS Test 2

1.	Maximum Shearing stress in a beam is at
1.	a) Neutral axis
	b) Extreme fibres
	c) Mid span
	Action of loading
2	As the most of loading
2.	At the neutral axis, bending stress is
	a) Minimum
	b) Maximum
	g) Zero
-	d) Constant
3	What are the units of flexural rigidity?
	(a) Nm2
	b) Nm
	c) N/m
-	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
	a) 5.4 × 106 mm3
	b) 6,2 × 106 mm3
	c) 5.5 × 106 mm3
	d) 6.4 × 106 mm3
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	.∌/ w×l
	b) w
	c) w/l
	d) w+l
6	Sagging, the bending moment occurs at the of the beam.
	a) At supports
	b) Mid span
	c) Point of contraflexure
	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume l = 2m].
	a) Rectangular b) Trapezoidal 7 Triangular d) Square
8	What are the units of axial stiffness?
	a) m3 b) m2 (v) N/ m d) -m
9	strength is caused by a moment of resistance offered by a section.
	Shear
	b) Flexural
	c) Axial
	d) Longitudinal
10	A Steel rod 200 mm diameter is to be bent into a circular arc section. Find radius of curvature. Take f =
	$120 \text{N/mm} 2 \& \text{E} = 2 \times 105 \text{ N/mm} 2.$
	a) 134m b) 166m c) 162m d) 174m
11	Which of these are types of normal stresses?
	a) Tensile and compressive stresses
	b) Tensile and thermal stresses
	c) Shear and bending
	d) Compressive and plane stresses
12	The extremities of any diameter on Mohr's circle represent
	(A) Principal stresses
	(B) Normal stresses on planes at 45°
	(C) Shear stresses on planes at 45°
	(D) Normal and shear stresses on a plane
	Dr. Liena A V

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## SREE NARAYANA GURU COLLEGE OF ENGINEERING SEMESTER S6 CE

-	
1.	Maximum Shearing stress in a beam is at
	a) Neutral axis
	b) Extreme fibres ✓
	c) Mid span
	d) Action of loading
2.	At the neutral axis, bending stress is
	a) Minimum
	b) Maximum
	c) Zero 🗸
^	d) Constant
3	What are the units of flexural rigidity?
	a) Nm2 ✓
	b) Nm
	c) N/m
4	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
	a) 5.4 × 106 mm3 b) 6.2 × 106 mm3
	c) 5.5 × 106 mm3 ✓
5	d) 6.4 × 106 mm3
)	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	b) w
	c) w/l
6	d) w+l
0	Sagging, the bending moment occurs at the of the beam.
	a) At supports ✓ b) Mid span
	c) Point of contraflexure
	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume l = 2m].
,	what will be the variation in BiviD for the diagram? [Assume 1 – 2m].
	a) Rectangular b) Trapezoidal c) Triangular d) Square
8	What are the units of axial stiffness?
Ü	a) m3 b) m2 c) N/ m d) -m
9	strength is caused by a moment of resistance offered by a section.
	a) Shear ✓
	b) Flexural
	c) Axial
	d) Longitudinal
10	A Steel rod 200 mm diameter is to be bent into a circular arc section. Find radius of curvature. Take f =
7000	$120N/mm2 \& E = 2 \times 105 N/mm2.$
	a) 134m b) 166m c) 162m d) 174m
11	Which of these are types of normal stresses?
	a) Tensile and compressive stresses •••
	b) Tensile and thermal stresses
	c) Shear and bending
	d) Compressive and plane stresses
12	The extremities of any diameter on Mohr's circle represent
500.2	(A) Principal stresses
	(B) Normal stresses on planes at 45°
	(C) Shear stresses on planes at 45°
	(D) Normal and shear stresses on a plane  Dr. LEENA A V
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	ENGINEERING & TECHNOLOGY
	PAYYANUR, KANNUR



CET308 COMPREHENSIVE COURSE WORK-MECHANICS OF SOLIDS Test 2

· ·	
1	Maximum Shearing stress in a beam is at
	a) Neutral axis
	Extreme fibres
	c) Mid span
^	d) Action of loading
2.	At the neutral axis, bending stress is
	a) Minimum
	b) Maximum
	Ø Zero
-	d) Constant
3	What are the units of flexural rigidity?
	a) Nm2
	by Nm
	c) N/m
	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
	a) 5.4 × 106 mm3
	b) 6.2 × 106 mm3
	c) 5.5 × 106 mm3
-	d) 6.4 × 106 mm3
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	w×1
	b) w
	c) w/l
,	d) w+l
6	Sagging, the bending moment occurs at the of the beam.
	a) At supports
	b) Mid span
	c) Point of contraflexure
-	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume l = 2m].
	Destruction of Comments of Com
0	a) Rectangular b) Trapezoidal co Triangular d) Square
8	What are the units of axial stiffness?
9	a) m3 b) m2 c) M/ m d) -m
9	strength is caused by a moment of resistance offered by a section.
	b) Flexural
	d) Longitudinal
10	A Steel rod 200 mm diameter is to be bent into a circular arc section. Find radius of curvature. Take f =
10	A steel rod 200 mm diameter is to be bent into a circular are section. Find radius of curvature, Take $I = 120 \text{N/mm} 2$ & $E = 2 \times 105 \text{ N/mm} 2$ .
	1201\(\text{mini2 & E = 2\(^{103}\) \(\text{mini2}\).
	a) 134m b) 166m c) 162m d) 174m
11	Which of these are types of normal stresses?
11	
	Tensile and compressive stresses b) Tensile and thermal stresses
	c) Shear and bending
10	d) Compressive and plane stresses
12	The extremities of any diameter on Mohr's circle represent
	(A) Principal stresses
	(B) Normal stresses on planes at 45°
	(C) Shear stresses on planes at 45°
	(D) Normal and shear stresses on a plane Dr. LEENA A V

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CET308 COMPREHENSIVE COURSE WORK-MECHANICS OF SOLIDS Test 2

1.	Maximum Shearing stress in a beam is at
	a) Neutral axis
	b) Extreme fibres
	c) Mid span
	d) Action of loading
2.	At the neutral axis, bending stress is
	a) Minimum
	b) Maximum
	C√Zero
	d) Constant
3	What are the units of flexural rigidity?
	a) Nm2
	b) Nm
	c) N/m
	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
8	a) 5.4 × 106 mm3
	b) 6:2 × 106 mm3
	C/5.5 × 106 mm3
	d) 6.4 × 106 mm3
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	a) w×l
	b) w
	c) w/l
	d) w+l
6	Sagging, the bending moment occurs at the of the beam.
	a) At supports
	b) Mid span
	c) Point of contraflexure
	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume 1 = 2m].
	a) Rectangular b) Trapezoidal c) Triangular d) Square
8	What are the units of axial stiffness?
	a) m3 b) m2 c)/N/ m d) -m
9	strength is caused by a moment of resistance offered by a section.
	(a) Shear
	5) Flexural
	c) Axial
	d) Longitudinal
10	A Steel rod 200 mm diameter is to be bent into a circular arc section. Find radius of curvature. Take f =
	$120\text{N/mm}2 \& E = 2 \times 105 \text{ N/mm}2.$
	a) 134m b) 166m c) 162m d) 174m
11	Which of these are types of normal stresses?
5:0	a) Tensile and compressive stresses
	b) Tensile and thermal stresses
	c) Shear and bending
	d) Compressive and plane stresses
12	The extremities of any diameter on Mohr's circle represent
12	(A) Principal stresses
	(B) Normal stresses on planes at 45°
	(E) Shear stresses on planes at 45°
	(D) Named and share standard and along
	(D) Normal and shear stresses on a plane

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CET308 COMPREHENSIVE COURSE WORK-MECHANICS OF SOLIDS Test 2

1.	Maximum Shearing stress in a beam is at
	a) Neutral axis
	b) Extreme fibres
	c) Mid span
	d) Action of loading
2.	At the neutral axis, bending stress is
	a) Minimum
	b) Maximum
	vc) Zero
	d) Constant
3	What are the units of flexural rigidity?
	a) Nm2
	b) Nm
	c) N/m
	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
	(a) 15.4 × 106 mm3
	b) 6.2 × 106 mm3
	c) 5.5 × 106 mm3
	d) 6.4 × 106 mm3
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	\a)\w×1
-	b) w
	c) w/l
	d) w+l
6	Sagging, the bending moment occurs at the of the beam.
	a) At supports
	b) Mid span
	c) Point of contraflexure
	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume 1 = 2m].
	That his of the variation in 2012 for the diagram. [1 10001101 2 101]
	a) Rectangular b) Trapezoidal q) Triangular d) Square
8	What are the units of axial stiffness?
	a) m3 b) m2 c) N/ m d) -m
9	strength is caused by a moment of resistance offered by a section.
	Shear
	b) Flexural
	c) Axial
	d) Longitudinal
10	A Steel rod 200 mm diameter is to be bent into a circular arc section. Find radius of curvature. Take f =
10	120N/mm2 & $E = 2 \times 105 \text{ N/mm2}$ .
	1201 VIIIII 2 C E = 2×103 1 VIIIII 2.
	a) 134m b) 166m c) 162m d) 174m
11	Which of these are types of normal stresses?
11	Tensile and compressive stresses
	b) Tensile and thermal stresses
	c) Shear and bending
10	d) Compressive and plane stresses
12	The extremities of any diameter on Mohr's circle represent
	(A) Principal stresses
	(B) Normal stresses on planes at 45°
	(C) Shear stresses on planes at 45°
	(D) Normal and shear stresses on a plane



CET308 COMPREHENSIVE COURSE WORK-MECHANICS OF SOLIDS Test 2

1.	Maximum Shearing stress in a beam is at
	a) Neutral axis
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	C) Mid span
2	d) Action of loading
2.	At the neutral axis, bending stress is
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3	What are the units of flexural rigidity?
	a) Nm2
	b) Nm
	c) N/m
	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
	a) 5.4 × 106 mm3
	b) 6.2 × 106 mm3
	c) 5.5 × 106 mm3
	d) 6.4 × 106 mm3
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	a) w×l
	b) w
	c) w/l
	d) w+l
6	Sagging, the bending moment occurs at the of the beam.
	a) At supports
	b) Midspan
	c) Point of contraflexure
	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume l = 2m].
	a) Rectangular b) Trapezoidal c) Triangular d) Square
8	What are the units of axial stiffness?
	a) m3 b) m2 s/ N/ m d) -m
9	strength is caused by a moment of resistance offered by a section.
	a) Shear
	b) Flexural
	o) Axial
	d) Longitudinal
10	A Steel rod 200 mm diameter is to be bent into a circular arc section. Find radius of curvature. Take f =
	$120\text{N/mm}2 \& E = 2 \times 105 \text{ N/mm}2.$
	a) 134m b) 166m c) 162m d) 174m
11	Which of these are types of normal stresses?
	a) Tensile and compressive stresses
	b) Tensile and thermal stresses
	c) Shear and bending
	d) Compressive and plane stresses
12	The extremities of any diameter on Mohr's circle represent
	(A) Principal stresses
	(B) Normal stresses on planes at 45°
	(C) Shear stresses on planes at 45°
	(D) Normal and shear stresses on a plane . Dr. EENA A V
	(D) Normal and shear stresses on a plane . PRINCIPAL

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## SREE NARAYANA GURU COLLEGE OF ENGINEERING ♣ TECHNOLOGY SEMESTER S6 CE

CET308 COMPREHENSIVE COURSE WORK-MECHANICS OF SOLIDS Test 2

1.	Maximum Shearing stress in a beam is at
	a) Neutral axis
	b) Extreme fibres
	c) Mid span
	d) Action of loading
2.	At the neutral axis, bending stress is
	a) Minimum
	b) Maximum
	c) Zero
	d) Constant
3	What are the units of flexural rigidity?
	(a) Nm2
	b) Nm
	c) N/m
	d) m/N3
4	Calculate the modulus of section of rectangle beam of size 240 mm × 400 mm.
	(a) 5.4 × 106 mm3
	b) 6.2 × 106 mm3
	c) 5.5 × 106 mm3
	d) 6.4 × 106 mm3
5	What is the maximum shear force, when a cantilever beam is loaded with udl throughout?
	a) w×l
	b) w
	c) w/l
	d) w+l
6	Sagging, the bending moment occurs at the of the beam.
	(a) At supports
	b) Mid span
	c) Point of contraflexure
	d) Point of emergence
7	What will be the variation in BMD for the diagram? [Assume 1 = 2m].
	a) Rectangular b) Trapezoidal c) Triangular d) Square
8	What are the units of axial stiffness?
	a) m3 b) m2 c/N/ m d) -m
9	strength is caused by a moment of resistance offered by a section.
	(a) Shear
	b) Flexural
	c) Axial
	d) Longitudinal
10	A Steel rod 200 mm diameter is to be bent into a circular arc section. Find radius of curvature. Take f =
	$120\text{N/mm}2 \& E = 2 \times 105 \text{ N/mm}2.$
	a) 134m b) 166m g) 162m d) 174m
11	Which of these are types of normal stresses?
	Tensile and compressive stresses
	b) Tensile and thermal stresses
	c) Shear and bending
	d) Compressive and plane stresses
12	The extremities of any diameter on Mohr's circle represent
	(A) Principal stresses
	(B) Normal stresses on planes at 45°
	(C) Shear stresses on planes at 45°
	(D) Normal and shear stresses on a plane
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## Sree Narayana Guru College of Engineering & Technology



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

# AY 2020 – 2021 (PLACEMENT ACTIVITIES, STUDENTS PLACED ON AND OFF CAMPUS, HIGHER STUDIES)



### Sree Narayana Guru College of Engineering & Technology



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

Year	Name of student placed	Program graduated from	Name of the employer with contact details	Pay package at appointment (In INR per annum) (applicable for students who got placement)
		B TECH IN COMPUTER SCIENCE		
	ANUJA N V	AND ENGINERRING	Infosys	3.5 L/Annum
			Ziga Ingotech	1.5 L/Annum
			Orion Innovation	1.5 L/Annum
		B TECH IN COMPUTER SCIENCE	MPHASIS	1.5 L/Annum
	ANIMA M	AND ENGINERRING	ALZONE	1.5 L/Annum
		B TECH IN COMPUTER SCIENCE	Kannur Vision	Stipend-7500
	NIVEDYA P	AND ENGINERRING	CYBROSYS	2 L/Annum
		B TECH IN COMPUTER SCIENCE		
	NIMISHA RAJEEV P	AND ENGINERRING	Kannur Vision	Stipend-7500
		B TECH IN COMPUTER SCIENCE	CSS Corp	
	LUBNA MUBASHIR	AND ENGINERRING	Wipro	3.5 L/Annum
2020-21			Valorem Reply	3.8 L/Annum
,			Buck	3.5 L/Annum
		B TECH IN COMPUTER SCIENCE	CSS Corp	3.2 L/Annum
	NAVEEN K P	AND ENGINERRING	UST Global	3.5 L/Annum
		B TECH IN COMPUTER SCIENCE		
		AND ENGINERRING	Buck	3.5 L/Annum
		B TECH IN COMPUTER SCIENCE		2/00-
	VYSHNAV RAJENDRAN	AND ENGINERRING	Buck	3.5 L/Annum
		B TECH IN COMPUTER SCIENCE		V
	ALBIN SABU	AND ENGINERRING	Buck	3.5 L/Amum ENA A V
		B TECH IN COMPUTER SCIENCE	Quest Global	BREE MARAHANA GURU COLLE
	SANGEETH A V	AND ENGINERRING	Buck	3.5ENGNEERING & TECHNOLO

ANACWADA VDICHA	B TECH IN COMPUTER SCIENCE	McContain	3 L/Annum
ANASWAKA KRISHA		MyCaptain	3 L/Annum
ANKETH LOVEJITH	AND ENGINERRING		3 L/Annum
	B TECH IN COMPUTER SCIENCE		
PRANAV P V	AND ENGINERRING	UST Global	3.5 L/Annum
	B TECH IN COMPUTER SCIENCE		
RAHUL P P	AND ENGINERRING	TCS	3.5 L/Annum
	B TECH IN COMPUTER SCIENCE	UST Global	3.5 L/Annum
ADISH KUMAR	AND ENGINERRING	TCS	3.5 L/Annum
	B TECH IN COMPUTER SCIENCE		
AVANTHIKA P	AND ENGINERRING	QUEST	3 L/Annum
	B TECH IN COMPUTER SCIENCE		
AMALDAS	AND ENGINERRING	ibsSoftware	4 L/Annum
	B TECH IN COMPUTER SCIENCE		
NIVEDYA P	AND ENGINERRING	Quest Global	3 L/Annum
	B TECH IN COMPUTER SCIENCE		
SAJINA T.V	AND ENGINERRING	Techversant	5.2L/annum
	B TECH IN COMPUTER SCIENCE		
NABEEL ABDUL NASAR	AND ENGINERRING	Riafy technologies	2.5L/annum
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	B TECH IN ELECTRONICS AND		
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## Sree Narayana Guru College of Engineering & Technology KOROM, PAYYANUR, KANNUR-670 307



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5.2.1 Percentage of outgoing students and students progressing to higher education during the last five years

Year	Name of students enrolling into higher education and contact details	Program graduated from	Name of institution joined	Name of program admitted to (applicable for students who progressed to higher education)
	SREEKANTH T G	ech Mechanical Enginee	Anna University	PHD in Variation Based Health Monitoring of Polymer matrix Composites
2020-21	NIKHIL BABU P	ech Mechanical Enginee	NIT Calicut	PHD in Mechanical Engineering
	ATHULYA KC Com	B.Tech Electronics and Communication Engineering	Cochin University of Science and Technology	M.Tech in Wireless Technology



## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

### WEBINAR ON "A PLATFORM FOR CAREER BUILDING: WHAT THEY WANT? WHAT WE CAN?"

Date: June 12, 2021

Venue: Virtual (Conducted via Online Platform)

Organizers: Sree Narayana Guru College of Engineering & Technology

Departments Involved: Department of Electronics and Communication Engineering (ECE) in association with the Department of Electrical and Electronics Engineering (EEE)

Resource Person: Dr. Surekha S Nair, Director-HR (India & Middle East), Eurofins India Pvt. Ltd.

Attendance: Approximately 100 participants

### Introduction:

On June 12, 2021, Sree Narayana Guru College of Engineering & Technology organized a webinar titled "A Platform for Career Building: What They Want? What We Can?" The event aimed to provide insights into the contemporary requirements of the job market and how students can align themselves with these demands for a successful career trajectory. Dr. Surekha S Nair, Director-HR at Eurofins India Pvt. Ltd., graced the session as the esteemed resource person.

### Session Overview:

Dr. LEENA A. V. PRINCIPAL

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The webinar commenced with an introduction by the organizing committee, highlighting the importance of understanding industry expectations in shaping one's career. Dr. Surekha S Nair then took the stage, delving into various aspects of career building and the dynamic nature of the professional landscape.

Key Highlights:

1. Industry Insights: Dr. Surekha provided valuable insights into the evolving demands of

different industries, emphasizing the significance of staying updated with the latest trends and

technologies.

2. Skills in Demand: The session shed light on the skills that are currently in high demand in

the job market, including technical competencies, soft skills, and adaptability to change.

3. Career Strategies: Practical strategies and tips were shared on how students can enhance

their employability quotient by acquiring relevant skills, networking, and showcasing their

strengths effectively.

4. Interactive Q&A: The session was highly interactive, with participants actively engaging in

discussions and seeking guidance on various career-related queries.

Key Takeaways:

- Understanding the pulse of the industry is crucial for career success.

- Continuous learning and upskilling are essential to stay competitive.

- Building a strong professional network can open doors to diverse opportunities.

- Effective communication and interpersonal skills are as important as technical expertise.

Conclusion:

The webinar on "A Platform for Career Building: What They Want? What We Can?" was a

resounding success, thanks to the insightful session delivered by Dr. Surekha S Nair. The

event provided students with a valuable platform to gain knowledge and guidance on

navigating the complexities of the job market and charting a fulfilling career path. The

collaboration between the Department of ECE and EEE in organizing this event underscores

the college's commitment to holistic student development.

Acknowledgment:

Sree Narayana Guru College of Engineering & Technology extends heartfelt gratitude to Dr.

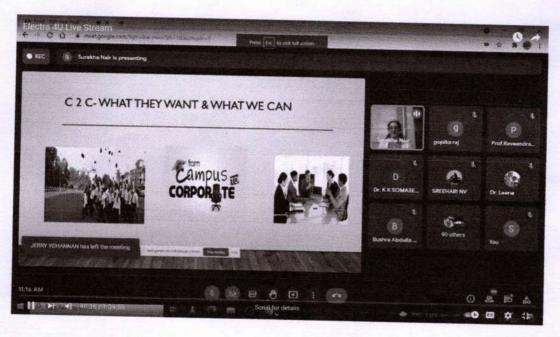
Surekha S Nair for sharing her expertise and invaluable insights with the participants. Special

thanks to the organizing committee, faculty members, and all the participants for making the

webinar a memorable and enriching experience.

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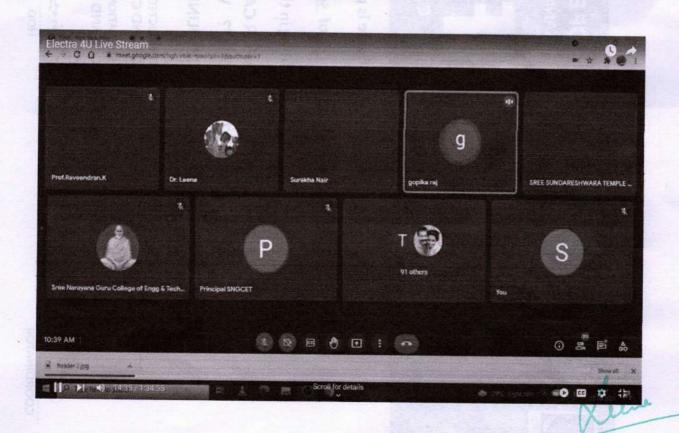


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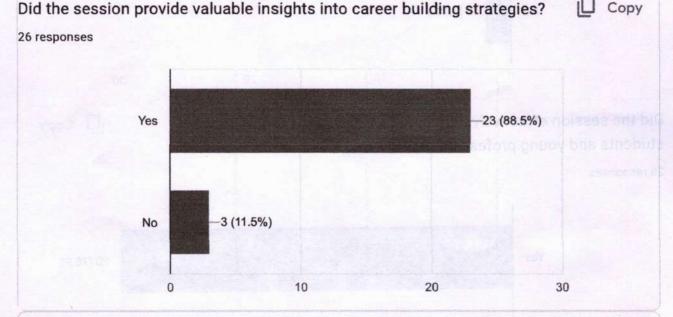


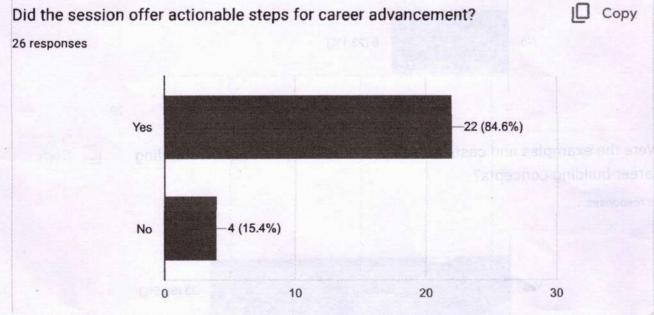


# WEBINAR ON A PLATFORM FOR CAREER BUILDING: WHAT THEY WANT? WHAT WE CAN?"

26 responses

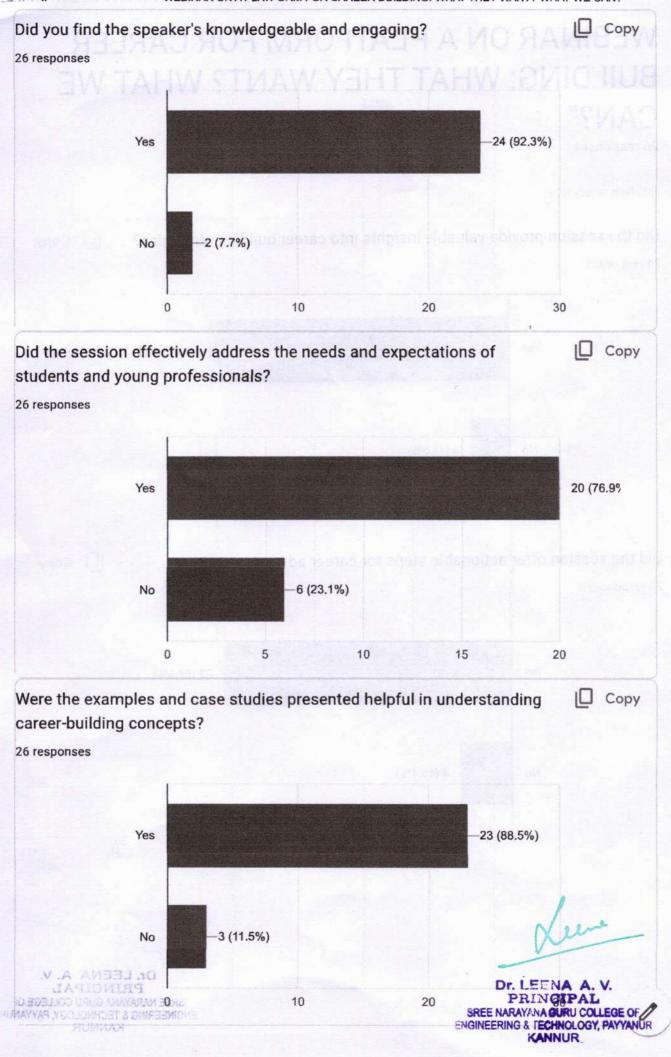
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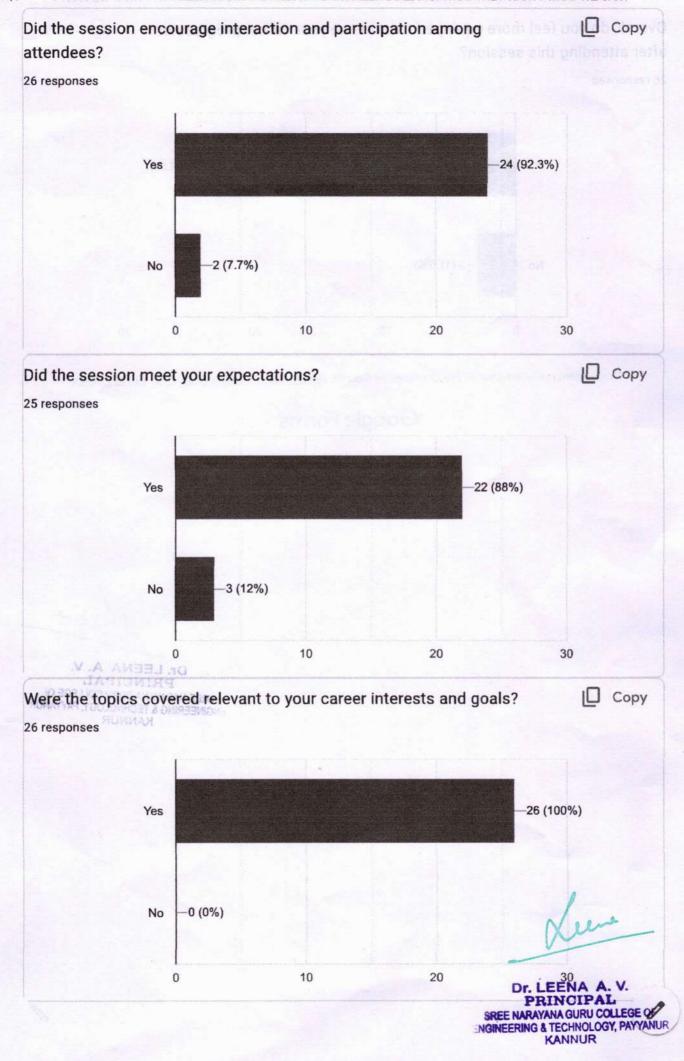


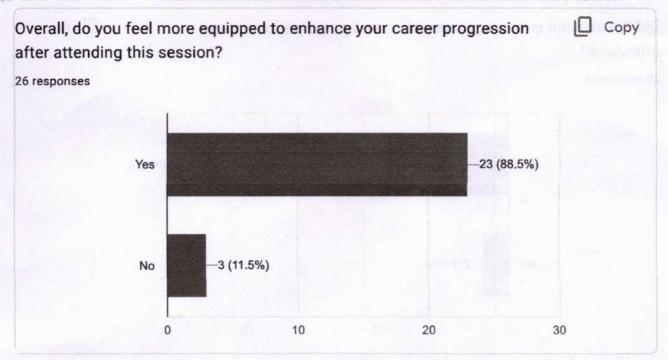


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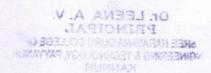






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### SREE NARAYANA GURU COLLEGE OF ENGINEERING AND TECHNOLOGY

KOROM, PAYYANUR, KANNUR-KERALA 670307



# CERTIFICATE

This Certificate is presented to

SOORAJ SURESH V O

of Sree narayana guru college of engineering

and technology

for participating in the webinar on

"A PLATFORM FOR CAREER BUILDING WHAT THEY WANT? WHAT WE CAN?"

on 12th JUNE 2021

CONDUCTED BY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IN ASSOCIATION WITH

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COORDINATOR

HOD

Dr. LEENA A. V.

PRINCIPAL

SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR

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## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING

### BATCH (2018-2022)

ROLL NO	REGISTER NO	NAME OF STUDENT
1	SNC18ME001	ABHIRAM M
2 SNC18ME002		ABHIRAM S
3	SNC18ME003	ABHISHEK DHANARAJ
4	SNC18ME005	AFNAN ABDUL NASAR
5	SNC18ME006	AKASH M
6	SNC18ME007	AMALJITH PUTHUSSERY
7	SNC18ME010	ARJUN P. K
8	SNC18ME011	ARJUN T.P
9	SNC18ME012	ASWIN O
10	SNC18ME013	GANESH K V
11	SNC15ME024	HRISHIKESH VINOD
12	SNC18ME015	JUNAID AHAMED K V
13	SNC18ME017	MOHAMMED YUNUS
14	SNC18ME018	MUHAMMAD SHAMIR K
15	SNC18ME019	MUHAMMED AJMAL ABDULLA
16	SNC18ME021	NIKHIL KRISHNA MV
17	SNC18ME022	NIVED . K.
18	SNC17ME026	NIVED KM
19	SNC18ME024	PRAVEEN V V
20	SNC18ME025	RAHUL RAVI P M
21	SNC18ME026	REJIL MANOHARAN
22	SNC18ME027	VIJIL P
23	SNC18ME028	VISHNU JAYENDRAN P V
24	SNC18ME029	VYSHNAV K

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## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

### DEPARTMENT OF MECHANICAL ENGINEERING

### **MOCK TEST 1**

- 1. What is fluid mechanics?
- a) Study of fluid behaviour at rest
- b) Study of fluid behaviour in motion
- Study of fluid behaviour at rest and in motion
- d) Study of fluid behaviour at rest and in motion
- 2. Which of the following is the basic principle of fluid mechanics?
- a) Momentum principle
- b) Energy equation
- c) Continuity equation
- All of the mentioned
- 3. Stress strain curve for cemented tungsten carbide is:
- a) Hyperbola
- b) Parabola
- c) A curve
- d) Straight line
  - 4. Which of the following relation is stated by Hooke's law?
  - a) Stress is directly proportional to strain
  - b) Stress is inversely proportional to strain
  - c) Stress is directly proportional to square of strain
  - d) Stress is inversely proportional to square of strain
  - 5. Which of the following is an application of thermodynamics?
  - a) Refrigerators
  - b) Gas compressors
  - C) Power plants
  - d) All of the mentioned
  - 6. Which of the following is a type of thermodynamic system?
  - a) Open system
  - b) Closed system
  - c) Thermally isolated system
  - d) All of the mentioned
  - 7./Which of the following occurs without a change in the internal energy?
- a) Isochoric process
- b) Isenthalpic process

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- c) Steady-state process
- d) Isenthalpic process
- 8. Which of the following properties must a material possess to be used in mold making?
- a) High refractoriness
- b) Chemical and thermal stability
- c) High permeability
- All of the mentioned
- 9. Which of the following group of material type is used in mold making?
- a) Metallic only
- b) Non-Metallic only
- Both metallic as well as non-metallic
  - d) Neither metallic nor non-metallic
  - 10. How many types of nucleation process are there and what are they?
  - a) 2 and (fusion and fission)
- (b) 2 and (Heterogeneous and Homogeneous)
  - c) 2 and (Heterogeneous and fusion)
  - d) 4 and (fusion, fission, Heterogeneous and Homogeneous)

View Answer

- 11. What reactions come under supercooling?
- a) Peritectic
- b) Eutectic and Peritectic
- Eutectic and Eutectoid
  - d) Peritectic and Eutectoid
- 12/Which is the most important thermodynamic parameter in Homogenous nucleation?
- Free energy G
- b) Enthalpy H
- c) Entropy S
- d) Free energy G, Enthalpy H, Entropy S

View Answer

- 13. What does phase transformation involve?
- a) Transformation rates kinetics
- b) Movement/rearrangement of atoms
- c) Changes in microstructure
- dy Transformation rate kinetics, rearrangement of Atoms, Changes in microstructure
- 14. What is the full form of ASTM?
- a) American society for testing and materials
- b) African society for testing and materials
- c) American society for torque and momentum forces
- d) American society for tensile motion forces
- 15. Which of the following is not the structural characteristic of a polycrystalline specimen?
- (a) Shape
- b) Average size

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- c) Reactivity
- d) Diameter
- 16. Which of the following refers to the term C.O.P. of refrigeration?
- a) Cooling for Performance
- (b) Coefficient of Performance
  - c) Capacity of Performance
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  - 17. Why sustainable manufacturing is required?
  - a) proper maintenance
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  - 19. Which of the following systems produce a vibration in the foundation?
- (a) Unbalanced machine
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  - c) Coupled machine
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  - 20. Which of the following is a type of fluid based on viscosity?
  - a) Real Fluid
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  - 21. The viscous force the relative motion between the adjacent layers of a fluid in motion. Which of the following flowing fits best in the sentence?
  - a) never affects
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View Answer

- 22. Pressure intensity or force due to pressure gradient for fluid at rest is considered as which of the following kind of force?
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- c) Surface force
- d) None of the mentioned

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## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

### DEPARTMENT OF MECHANICAL ENGINEERING

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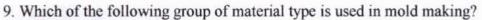
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## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

#### DEPARTMENT OF MECHANICAL ENGINEERING

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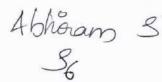
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# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING MOCK TEST 2

l	The s	lope of the surface $z$ :	= <i>xe</i> <sup>-</sup>	y + 5y in the x-direction	at th	e point (4,0) is		20
	a)	0	b)	-1	c)<	1	d)	2
2.	The s	olution of		is	/			
	a)	$c_1 \cos x + c_2 \sin x$	b)	$c_1e^x+c_2e^{-x}$	c)	$(c_1+c_2x)e^x$	d) <	$(c_1+c_2x)e^{-x}$
3.		ple spring mass vibra is doubled then the na	-	system has a natural freq frequency will be	uenc	y of N. if the spring st	iffnes	ss is halved and the
	a)	N	b)	0.5N	c)	2N	4)	0.25N
١.		roportion of second n	nome	ent of area about centroid	al ax	is to second moment of	of are	a about base of a
	<u>a</u> )	0.3	b)	0.1	c)	0.25	d)	0.08333
5.	An al	gorithm for schedulin	g a s	et of project activities:				
	a)	Critical Path Method	b)	Crucial Practicing Method	c).	Centre Processing Method	d)	None
5,				radical redesign of the b of performances such as				atic improvements in
	a)	Recycling	b)	Quality engineering	c)	Contemporary design	d)	Re - engineering
7.	Comp	oosting is						
	a)	anaerobic degradation	b)	anaerobic treatment	c)	aerobic treatment	d)	an aerobic degradation process
		*						

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		process for solid waste treatment		for sullage		for sewage		for solid waste treatment
8.	The r	ating system of India	a which	h is focussed on conser	vation	and efficient energy u	ise is	
	a)	GRIHA	b)	LEED India	c)	IGBC .	<u>d</u> )-	BEE
9.	In ort	hographic projection	n, each	projection view repres	ents h	ow many dimensions of	of an	object?
	a)	1	b)	2	c)	3	d)	0
10.	The f	ront view, side view	and to	p view of a cylinder sta	anding	on horizontal plane b	ase of	n horizontal plane.
	a)	circle, rectangle and rectangle	b)	rectangle, rectangle and circle	c)	rectangle, eircle and rectangle	d)	circle, triangle and triangle
				PART B- COR	E CO	URSES		
11.	Attracti	ve forces between m	etal io	ns and delocalized elec	trons o	can be weakened or ov	ercor	ne by
	a)	hammer	b)	high temperature	Q	water	d)	All of above
12.	Crystall	ine solids can be rec	ognize	d by their				
	) a)	low boiling point	b)	sharp melting point	c)	colour	d)	moderate melting point
13.	Anneali	ng of steel is done to	impai	t which of the followin	g prop	perties to steel?		
	a)	Hardness	b)	Toughness	c)	Ductility	<u>d)</u>	None of the mentioned
14.	Major c	onstituent of the gun	metal	alloy is	/			
	(a)	Copper	b)	Nickel	c)	Iron	d)	Zinc
15.	Which f	errous material does	n't sho	w fatigue limit?		ر		
	a)	Cast iron	b)	Wrought iron	Ć)	Austenitic stainless	d)	Low carbon steel
16.	Which o	of the following meth	nods of	melting is not used for	melti	ng titanium metal?		
	a)	Induction method	b)_	Vaeuum arc method	(c)	Electron beam melting	d)	Cupola furnace melting
17.	A turbin	e is called impulse i	f at the	inlet of the turbine				
	a)	Total energy is only pressure energy	_b)	Total energy is only kinetic energy	c)	Total energy is the sum of kinetic energy and pressure	d)	None of the above
			4			energy	X	el .

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	4								
8.	Find the	overall efficiency of	a tur	bine if the me	chanical ef	ficie	ncy is 80% and hydrau	lic ef	fficiency is 90%
	a)	88	b)	90	2	c)	72	d)	30
9.	In a cen	trifugal pump casing	, the f	low of water l	eaving the	impo	eller is		
	A)	Rectilinear flow	b)	Radial flow		c)	Forced vortex flow	d)	Free vortex flow
20.	Hydraul	ic accumulator is a d	evice	used for					
	a)	Lifting heavy weights	b)	Storing the e a fluid in the pressure ene	form of	c)	Increasing pressure intensity of a fluid	d)	Transmitting power from one shaft to another shaft

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1.

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	a)	0	b)	-1	6)	1	d)	2
2.	The	solution of		is			>	
	a)	$c_1 \cos x + c_2 \sin x$	b)	$c_1e^x + c_2e^{-x}$	c)	$(c_1+c_2x)e^x$	_d)_	$(c_1+c_2x)e^{-x}$
3.		nple spring mass vibra is doubled then the na		system has a natural fre l frequency will be	quenc	y of N. if the spring s	tiffnes	s is halved and the
	a)	N	b)	0.5N	(ی	2N	d)	0.25N
4.		proportion of second n	nome	ent of area about centroi	dal ax	is to second moment	of area	a about base of a
	a)	0.3	b)	0.1	c)	0.25	d)	0.08333
5.	An <u>a</u>	lgorithm for schedulin	g a s	et of project activities:				
	a)	Critical Path Method	b)	Crucial Practicing Method	c)	Centre Processing	d)	None
6.				I radical redesign of the of performances such as				atic improvements in
	a)	Recycling	b)	Quality engineering	c)	Contemporary design	d)_	Re - engineering
7.	Com	posting is						
	a)	anaerobic degradation	b)	anaerobic treatment	c) ~	aerobic treatment	d)	an aerobic degradation process

The slope of the surface  $z = xe^{-y} + 5y$  in the x-direction at the point (4,0) is

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		process for solid waste treatment		for sullage		for sewage		for solid waste treatment
8.	The ra	ating system of India	whic	h is focussed on conse	ervation	and efficient energy	use is	*
	a)	GRIHA	b)	LEED India	()	IGBC	<u>d</u> )	BEE
9.	In ort	hographic projection	, each	projection view repre	esents ho	ow many dimensions	of an o	bject?
	a)	1	b)	2	0)	3	d)	0
10.	The f	ront view, side view	and to	p view of a cylinder	standing	on horizontal plane	base on	horizontal plane.
	a)/	circle, rectangle and rectangle	b)	rectangle, rectangle and circle	c)	rectangle, circle and rectangle	d)	circle, triangle and triangle
				PART B- CO	RE CO	URSES		
11.	Attractiv	ve forces between me	etal io	ns and delocalized ele	ectrons c	an be weakened or o	vercom	ne by
	a)	hammer	b)_	high temperature	A c)	water	d)	All of above
12.	Crystall	ine solids can be reco	gnize	d by their				
	a)	low boiling point	b)	sharp melting point	(c)	colour	d)	moderate melting point
13.	Anneali	ng of steel is done to	impa	rt which of the follow	ing prop	erties to steel?		
	a)	Hardness	b)	Toughness	c)	Ductility	<u>d</u> )	None of the mentioned
14.	Major co	onstituent of the gun	metal	alloy is				
	a)	Copper	b)	Nickel +	c)	Iron	d)	Zinc
15.	Which f	errous material doesn	n't sho	ow fatigue limit?				
	a)	Cast iron	b)	Wrought iron	(c)	Austenitic stainless steel	d)~	Low carbon steel
16.	Which o	of the following meth	ods o	f melting is not used f	for melti	ng titanium metal?		
	(a)	Induction method	b)	Vacuum arc method	d c)	Electron beam melting	d)	Cupola furnace melting
17.	A turbin	ne is called impulse if	at the	e inlet of the turbine				
	a)	Total energy is only pressure energy	b)	Total energy is only kinetic energy		Total energy is the sum of kinetic energy and pressure energy	- 6	None of the above
							PRINC	NOLOGY, PAYYA

18.	Find the	overall	efficiency of a turb	ine if the	mechanical	efficiency is	80% and hy	draulic eff	ficiency is 90%	
	a)	88	b)	90	. /	e) 72		d)	30	
10	T.,		41. 0	C	41	L = 2				

- 19. In a centrifugal pump casing, the flow of water leaving the impeller is
  - a) Rectilinear flow b) Radial flow c) Forced vortex flow d) Free vortex flow
- 20. Hydraulic accumulator is a device used for
  - a) Lifting heavy weights b) Storing the energy of a fluid in the form of pressure energy
- c) Increasing pressure intensity of a fluid
- d) Transmitting power from one shaft to another shaft

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# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING MOCK TEST 2

۱.	The	slope of the surface $z$	$= xe^{-}$	-y + 5y in the x-direction	at th	ne point (4,0) is		0
	a)	0	b)	1	c)	1	d)	2
2.	The	solution of		is		V		
	a)	$c_1\cos x + c_2\sin x$	b)	$c_1e^x+c_2e^{-x}$	c)	$(c_1+c_2x)e^x$	<u>_</u> d}	$(c_1+c_2x)e^{-x}$
3.		nple spring mass vibra is doubled then the na	-	system has a natural free	•		tiffne	ss is halved and the
	a)	N	b)	0.5N	c)	2N	d)	0.25N
1.		proportion of second r	nome	ent of area about centroi			of are	a about base of a
	a)	0.3	b)	0.1	c)	0.25	d)	0.08333
5.	An <u>a</u>	lgorithm for schedulin	ıg a s	et of project activities:				
	a)	Critical Path Method	b)	Crucial Practicing Method	c)	Centre Processing Method	d)	None
6.				radical redesign of the of performances such as				atic improvements in
	a)	Recycling	b)	Quality engineering	c)	Contemporary design	d)	Re - engineering
7.	Com	posting is		,				
	a)	anaerobic degradation	b)	anaerobic treatment	ç)	aerobic treatment	d)	an aerobic degradation process

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		process for solid waste treatment		for sullage		for sewage		for solid waste treatment
3.	The r	ating system of Inc	lia which	n is focussed on conse	ervation	and efficient energy	use is	
	a)	GRIHA	b)	LEED India	c)	IOBO	d)	BEE
9.	In ort	hographic projecti	on, each	projection view repre	esents ho	ow many dimension:	s of an o	bject?
	a)	1	b)	2	T ()	3	d)	0
10.	The f	ront view, side vie	w and to	p view of a cylinder s	standing	on horizontal plane	base on	horizontal plane.
	a)	circle, rectangle and rectangle	b)	rectangle, rectangle and circle	(c)	rectangle, circle	d)	circle, triangle and triangle
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11.	Attracti	ve forces between	metal ion	ns and delocalized ele	ectrons c	an be weakened or	overcom	ne by
	a)	hammer	b)	high temperature	c)	water	d)	All of above
10	C	1/.1 1		d have the six of				
12.		ine solids can be re			)		4)	
	a)	low boiling point	(D)	sharp melting point	C)	colour	d)	moderate melting point
13.	Anneali	ng of steel is done	to impar	t which of the follow	ing prop	perties to steel?		
	a)	Hardness	<b>b</b> )	Toughness	c)	Ductility	d)	None of the mentioned
14.	Major c	onstituent of the g	un metal	alloy is				
	a)	Copper	b)	Nickel	c)	Iron	d)	Zinc
15.	Which f	ferrous material do	esn't sho	w fatigue limit?				
	a)	Cast iron	+b)	Wrought iron	c)	Austenitic stainles steel	s d)	Low carbon steel
16.	Which o	of the following m	ethods of	f melting is not used f	for melti	ng titanium metal?		
	a)	Induction	b)	Vacuum arc method	d c)	Electron beam	d)	Cupola furnace
		method				melting		melting
17				La Cala a 15				
17.				inlet of the turbine		7/1	•	
	a)	Total energy is only pressure	b)	Total energy is only kinetic energy	(c)	Total energy is the sum of kinetic		None of the above
		energy		,		energy and pressure energy	(	Leve
							LEE	NA A. V
							NARAYAN	GURU COLLEGE C CHNOLOGY, PAYVANDER ANNUR
							K	4

18.	Find the overall et	fficiency of a	turbine if the mechan	cal efficiency is 8	0% and hydraulic	efficiency is 90%
-----	---------------------	----------------	-----------------------	---------------------	------------------	-------------------

a) 88

b) 90

c)\_72

d) 30

19. In a centrifugal pump casing, the flow of water leaving the impeller is

- a) Rectilinear flow
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#### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

#### DEPARTMENT OF MECHANICAL ENGINEERING

#### **MOCK TEST 3**

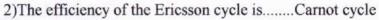
1)In a	system, there is no exchange of matter, but the exchange of energy is	S
possible between	system and the surrounding	

A.isolated

B.closed

C)adiabatic

D)More than one of the above

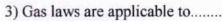


A. Greater than

B. Less than

C.Equal to

D. None of the above



A.Gases as well as vapours

B. Gases alone and not to vapours

C.Gases and steam

D.Gases and vapours under certain conditions

4). General gas equation is......

A.PY = nRT

B.PV = mRT

 $C.PV^n = C$ 

 $D.C_p - C_v = R/J$ 

5) Which of the following laws is applicable for the behaviour of perfect gas ......

A.Boyle's law

B.Charle's law

C.Gas-Lussac law

,DAll of the above

6) When a body floating in a liquid, is displaced slightly, it oscillates about

A. C.G. of body

B. Center of pressure

C. Center of buoyancy

D. Metacentre

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7) The pressure of the liquid flowing through the divergent portion of a Venturimeter A. Remains constant
B. Increases
C Decreases
D. Depends upon mass of liquid
8) When the Mach number is between the flow is called super-sonic flow.
A. 1 and 2.5
B. 2.5 and 4
C. 4 and 6
D. 1 and 6
9)Steady flow occurs when
A. The direction and magnitude of the velocity at all points are identical
B. The velocity of successive fluid particles, at any point, is the same at successive periods of
time
C. The magnitude and direction of the velocity do not change from point to point in the fluid
D. The fluid particles move in plane or parallel planes and the streamline patterns are identical in each plane
10) ( 0 ) 1   1   1   1   1   1   1   1   1   1
<ul><li>10)A fluid which obeys the Newton's law of viscosity is termed as</li><li>A. Real fluid</li></ul>
B. Ideal fluid
W. Newtonian fluid
D. Non-Newtonian fluid
11). Hooke's law essentially defines
A. Stress
B. Strain
C. Yield point
D. Elastic limit

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- 12) The ratio of the change in dimension at right angles to the applied force to the initial dimension is known as
  - A. Youngs' modulus
  - B. Pøisson's ratio
  - C. Lateral strain
  - D. Shearing strain
- 13) Substances that can be stretched to cause large strains are called
  - A. Brittle
  - B. Ductile
  - C. Plastic
  - D. Elastomer
- 14) Volumetric Strain is
- (a)Increase in length / original length
- (b)Decrease in length / original length
- (e) Change in volume / original volume
- (d)All of the above
- 15) Poisson's ratio is
- A)Lateral strain / Longitudinal strain,
  - b. Shear strain / Lateral strain
- c. Longitudinal strain / Lateral strain
- d. Lateral strain / Volumetric strain
- 16) 5. Pick the composite from the list
- (a) Wood
- (b) Steel
  - (c) Nylon
- (d) Mica

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17) Repeatable entity of a cry	stal structure is known as
a) Crystal	
b) Lattice	
C) Unit cell	
d) Miller indices	
18)Coordination number for	closest packed crystal structure
a) 16-	/
t) 12	
c) 8	
d) 4	
19)Atomic packing factor is	
a) Distance between two adja	cent atoms
b) Projected area fraction of	atoms on a plane
c) Volume fractionof atoms in	n cell
d)None	
20. Coordination number in s	imple cubic crystal structure
a) 1 /	
b)6	
c) 3	
d)4	

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## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING

#### **MOCK TEST 3**

1)In a	system, there is no exchange of matter, but the exchange of energy is
possible between	system and the surrounding

A.isolated

D.closed

C)adiabatic

D)More than one of the above

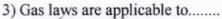


A. Greater than

B.Less than

C.Equal to

D. None of the above



A. Gases as well as vapours

B. Gases alone and not to vapours

C.Gases and steam

D.Gases and vapours under certain conditions

4). General gas equation is......

A.PV = nRT

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A. Remains constant	
B. Increases	
C. Decreases	
D. Depends upon mass of liquid	
8)When the Mach number is between the flow is called super-sonic flow.  A. 1 and 2.5	
B 2.5 and 4	
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9)Steady flow occurs when  A. The direction and magnitude of the velocity at all points are identical	
B. The velocity of successive fluid particles, at any point, is the same at successive per time	iods of
C. The magnitude and direction of the velocity do not change from point to point in the	fluid
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11). Hooke's law essentially defines	
A. Stress	
B. Strain C. Yield point	
D. Flastic limit	

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- 12) The ratio of the change in dimension at right angles to the applied force to the initial dimension is known as
  - A. Youngs' modulus
  - B. Pøisson's ratio
  - C. Lateral strain
  - D. Shearing strain
- 13) Substances that can be stretched to cause large strains are called
  - A. Brittle
  - B. Ductile
  - C. Plastic
  - D. Elastomer
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- (a)Increase in length / original length
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- (c)Change in volume / original volume
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- a)Lateral strain / Longitudinal strain
- Shear strain / Lateral strain
- c. Longitudinal strain / Lateral strain
- d. Lateral strain / Volumetric strain
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- (d) Mica

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17) Repeatable entity of a crystal structure is known as
a) Crystal
b) Lattice
c)Unit cell
d) Miller indices
18)Coordination number for closest packed crystal structure
a) 16
b) 12
c) 8
d) 4
19)Atomic packing factor is
a) Distance between two adjacent atoms
b) Projected area fraction of atoms on a plane
c). Volume fraction of atoms in cell
d)None
20. Coordination number in simple cubic crystal structure
ari T
b) 6
c) 3

d)4

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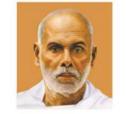
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# Sree Narayana Guru College of Engineering & Technology



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

# AY 2019 – 2020 (PLACEMENT ACTIVITIES, STUDENTS PLACED ON AND OFF CAMPUS, HIGHER STUDIES)



## Sree Narayana Guru College of Engineering & Technology



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

Year	Name of student placed	Program graduated from	Name of the employer with contact details	Pay package at appointment (In INR per annum) (applicable for students who got placement)
	ANJALI BABU	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	UST Global	3.5L/annum
	K P ANUPRIYA	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	Infosys	3.6L/annum
	NAVYA BHASKARAN	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	TCS	3.3L/annum
2019-20	HARSHA SHANKAR	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	Rein digital	2.8L/annum
	ARYASREE VIJAYARAJ D	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	Congruex Asia Pacific	3.5L/annum
	NAVEENA M	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	IBS software	3L/annum
	VIPIN P V	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	Infosys	5L/annum Xu

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ENGINEERING & TECHNOLOGY
PAYYANUR, KANNUR



## Sree Narayana Guru College of Engineering & Technology

KOROM, PAYYANUR, KANNUR-670 307



Est. 2003

5.2.1 Percentage of outgoing students and students progressing to higher education during the last five years

Year	Name of students enrolling into higher education and contact details	Program graduated from	Name of institution joined	Name of program admitted to (applicable for students who progressed to higher education)
2019-20	ANOOP A V	B.Tech Electronics and Communication Engineering	NIT Calicut	PHD in Material Science and Engineering (Nano Sensors)

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PAYYANUR, KANNUR



# SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY



#### VISION

A knowledge society promoting human excellence and enlightenment through effective education.

#### MISSION

To provide technical education of the highest quality and standard of excellence for socio-economic progress embedded in clearly articulated values and supported by commitments.

### **CLASS RECORD**

Name : Ms. PRABHA CHANDRAN

Designation : ASSISTANT PROFESSOR

Department : Electrical and Electronics Engineering

Academic Year : 2019-2020

Semester : EVEN

Subject name : Comprehensive Exam (EE352)

Class : S6-BTECH-EE

Batch : 2017-2021

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SREE NARAYANA GURU COLLEGE OF ENGINEERING AND TECHNOLOGY P.O.CHALAKKODE, PAYYANUR, KANNUR-670307.

APPROVED BY AICTE

AFFILIATED TO A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY A A V

PROMOTED BY: SREE BHAKTHI SAMVARDHINI YOGAM, TALAP, KANNUR RINCIPAL OLOGY

PAYYANUR, KA

#### Class Attendance

Rell			Month							102		02		02	02	
No.	Reg. No.	Name	Date					4 3	3	07	-	14	14	28		
			Hour	. 5	5 6		6	5	6	5	6	2	-	.5	6	
1	SNC17EE001	Anusree Prakash (F)		1		11	1	1	1	1	1	1	1	/	1	
2	SNC17EE002	Gagana V (F)		1	1	17	1	1	1	1	1	1	1	1	/	
3	SNC17EE003	Greeshma P (F)		1	1	12	1	1 9	1	1	1	1	1	1	1	
4	SNC17EE004	Manasa K (F)		A	A	1		1	1	1	1	1	1	1	1	
6	SNC17EE006	Muhammad Nabeel (M)		1	A	1	4	A	A	1	1.	1	1	1	1	
7	SNC17EE007	Vaishakh M.m (M)		A	1	1		1 /	1	1	1	1	1	1	1	
8	SNC17EE008	Vivek Valsan (M)		1	1	1		· A	A	10	1	1	1	4	A	
9	SNC17EE009	Yadukrishnan V v (M)		1	1/	+ 1		A	A	1	1	1	1	A	A	
10	SNC16EE004	Lajeesh Kumar K p (M)		P	A	14	A	1	1	1	1	1	1	F	A	
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		lot	ai Strength	4	TE	9	9	9	9	91	9 0	1 1	9 0	7 1 1	7	

42. For the differential equation  $\frac{dy}{dt}$  + 5y=0 with y(0) =1 the general solution is B) e-5t A) e5t C) 5e-5t D) none of these 43. The radial component of velocity for a particle moving in a circular path is B) radius itself A) zero C) variable D) none of the above 44. In which Quadrant the HP comes above XY line and VP comes below XY line for orthographic projection? B) Second Quadrant C) Third Quadrant D) Fourth Quadrant A) First Quadrant 45. The force applied on a body of mass 100 kg to produce an acceleration of 5 m/S2 is A) 20 N B) 100 N C) 500 N D) None of these 46. Which was the major green building rating system developed by TERI A) GRIHA B) LEED C) BREEAM D) CASBEE

V600

47. Which stage is directly responsible for the technical functioning of the product A) engineering function B) research function C) manufacturing function D) commercial function

48. The first full-scale and usually fully functional forms of a new design is called A) Model B) prototype C) rapid prototype D) design attribute

49. The Air Pollution and Control Act, popularly known as the 'Air Act' was passed for the first time in US in A) 1955 B) 1999 C) 2004 D) 2015 50. Probability of a product successfully operation for a specific period of time is called

A) reliability B) durability C) conformance D) serviceability

01.02.2019

NO. OF QUESTIONS :

TIME:

(O1) A coil has a resistance of 100-2 at 90°C. At 100°C its resistance is 101-1. The temperature-coefficient of the wire at 90°C is

(a) 0.01

(c) 0.000|

(b) 0.1

(d) 0.001.

(02) Ifa 1500 1 resistor is to be replaced in a circuit and no 1500-2 resistor is available, then which of the following would you connect, given several 1000-2 Resistors

(a) three in parallel

(c) two in parallel and one in series

(b) three in series

. (d) two in parallel.

(a) Same resistance values

(b) same voltage across them

(C) same current passing through them

(d) different resistance values.

(Q4) In a parallel circuit, all components must

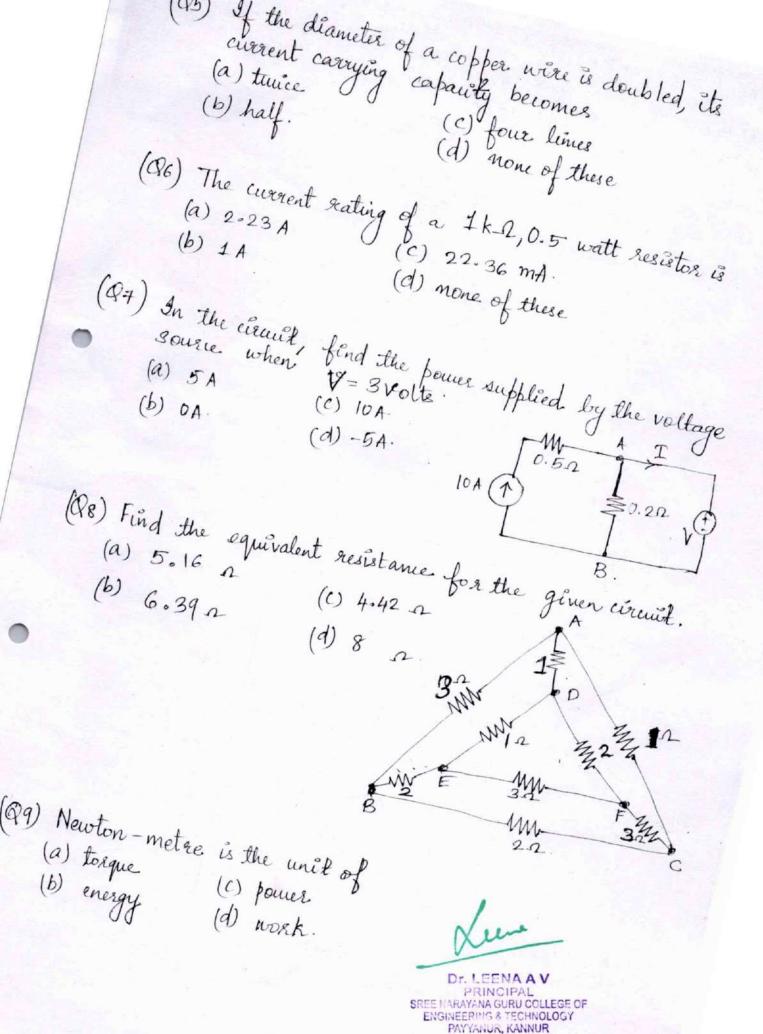
(a) have the same potential difference across attem SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY PAYYANUR, KANNUR

(b) have same value.

(C) carry equal currents:

(d) carry same twerent.

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PAYYANUR, KANNUR

(DIO) One kWh equals nearly k(als.  (a) 3600 (c) 4200  (b) 860 (d) 9800.
(a) 3600 (c) 4200
(b) 860 (d) 9800.
(Ou) I + 1 e 2 hal heater be 10 hours at
(VIII) The cost of running 2 KW meaning for 10 hours at
(PII) The cost of sunning 2kW heater for 10 hours at 50 paise/kWh is Rs  @ 5 @ 1 6 10 @ 2.
(b) 10 (d) 2.
(Q12) A torque of 50 Nm. driving a moto 8 at 600 pm
A torque of 50 Nm. driving a motor at 600 pm  produces a power of  (a) 500 (c) 1570
(a) 500 (c) 1570
(b) 3140. (d) 30,000
COLT OF A
(a) Henry/metre (c) ampère/metre (b) Weber/metre <sup>2</sup> (d) Joule/weber
(b) Webes Instee? (d) Soule Inveber
(4) Julie / Wester
Q14) Aluminium can be classified as a material
(a) paramagnetic (c) diamagnetic (b) ferromagnetic (d) soft magnetic
(b) following have
Since the selection of
O(15) Permeance of a magnetic circuit is given by the resiprocal
of its
(a) reluctance (c) flux density
(b) permeability (d) reluctivity.
Lucas
Dr. LEENA AV  Dr. LEENA AV  Dr. LEENA AV  Dr. LEENA AV

(96) Magnetic leakage in electric machines leads to their
(a) increased weight (c) reduced efficiency.
(a) increased weight (c) reduced efficiency. (b) increased cost (d) all the above.
(e) only (a) and (b).
(DI) The and is duesd in a coil debends on
(c) 10 laste tuen
(a) the number of its wind
(Q17) The emf induced in a coil depends on  (a) the number of its turn  (b) the change of flux linked withit
() the lime laken to change the flux.
(d) all the above.
(P18) The direction of the induced enf in a coil may be found with the helf of.
(a) Faraday's Law (c) Fleming's left-hand rule (b) Lenz's law. (d) Steinmetz law
(a) Faraday's Law (c) Flening's left-hand rule (b) Lenz's law. (d) Steinmetz law
(P19) The inductance of the coil wound with 200 turns on an iron ring with relatively long air gap and found to produce a flux of 130 µWb, when a current of 3A is passed through
iron ring with solutively long air gap and found to produce
a Hux of 130. Wh who are passed through
of some by
il is given by mtt.
(a) 8.67 (c) 867
(b) 86.7 (d) 1.
(Doe) The soll industries of two vile are duly and gray 41
(012) The seef charciances of auto (ours are 4min and 1min. of
the entropy of 1 . 110 on the first
the coefficient of coupling is 0.5, the mutual inductance
between the coils is mH.
(P20) The self inductances of two coils are 4mH and 9mH. If the coefficient of coupling is 0.5, the mittal inductance between the coils ismH.  (a) 1 (b) 2 (d) 4.

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(Q21) The armature conductors of a 6 pole, lap wound decegenerator are divided into, parallel paths.  (a)2 (b) 3. (d) 4.
(Q22) In a long-shunt compound-wound generator, the Shunt field is connected in parallel with  (a) armature (b) series field.  (c) parallel combination of armature and series field.  (d) series combination of armature and series field.
(P23) If the flux/pole of a d.c. generator is halved but its speech is doubled, its generated e.m.f will  (a) be halved  (b) remain the same.  (d) be quadrupled.
(Q24) Stray losses in a d.c. generator consist oflosses.  (a) magnetic and mechanical  (b) magnetic and electrical  (c) electrical and mechanical.  (d) copper and iron.
(25) The overall efficiency of a d.c. shurt generator is  maximum when its variable loss equals  (a) stray (b) ison (d) mechanical.  Dr. LEENAAV  Dr. LEENAAV  SREE MARAYANA GURU COLLEGE OF  PATYANUR, MANNUR  (5)

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. (Q26) The e.m.f generated within the armature of a d.c. generator is given by.	
(a) $E_g = \frac{\phi z N}{A}$ (b) $E_g = \frac{\phi z P}{60 A}$	
(b) Eg = $\phi Z N \left( \frac{P}{A} \right)$ (c) Eg = $\frac{\phi Z N}{60} \left( \frac{P}{A} \right)$ . (d) both (b) and (c).	
(Q27) The O.C.C of a dc generator is also called its	-
(a) internal (c) external (b) magnetic (d) performance.	
Q28) The line representing the critical resistance of a d.c. generator its 0.00.	
(a) intersecte (c) just touches	
(b) does not intersect. (d) runs parallel to	

- (R29) Which of the following will NOT prevent a self-excited shunt generator from building upto its full voltage?
  - (a) wrong direction of rotation (b) Open field.

(Q28)

- (c) no residual magnetism
- (d) speed too high.
- (930) Which of the following generator provides approximately constant voltage from no load to full load? (c) flat compound
  - (a) series

(b) shunt

(d) over compound

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Q31. When load is semoved, motor will sun at
the highest speed.
(a) shunt (c) cumulatine compound
(b) series (d) differential-compound.
(a) Lathes
(a) lathes
(b) heavy machine took
(c) cranes and houts
(d) shears and punches.
P33 Motor Starters are essential for
(a) accelerating the motor
(a) accelerating the motor  (b) starting the motor
(c) avoiding excessive starting current
(d) preventing fuse blowing.
(a) its flux.
(a) its flux.
(b) armative circuit resistance
(c) applied voltage
(c) applied voltage. (d) all of the above.
\$35 Form factor is defined as I for simusoidal waveform).
(a) rms value (c) maximum value duerage value (c) maximum value duerage value

(7)

(b) average value rms value.

(d) average value Dr. LEENA AV

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:  $\underline{Q36}$  Two simusoidal currents are given by the equations  $i_1 = 10 \text{ sint } \left( \text{wt} + \underline{\pi} \right)$   $i_2 = 15 \text{ sin } \left( \text{wt} - \underline{\pi} \right)$ The phase difference between them is \_\_\_\_\_\_\_degrees.

(a) 105 (c) 15

(b) 75 (d) 60.

237 An alternator having 20 poles and running at 300 r pm will produce an alternating voltage having a frequency of — Hz.

(a) 50 (c) 300

(b) 60 (d) 20.

Q38 If a moving coil ammeter is used to measure the value of an alternating sinusoidal current having a peak value of 100 A, it will sead \_\_\_\_\_ amperes.

(a) 50
(b) 15.7
(d) 70.7.

139 An A.C. current is given by i= 100 sin 10071. It will achieve a value of 50A after \_\_\_\_ sec.

(a) 1/600 (c) 1/1800 (b) 1/300 (d) 1/900

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NAME:		 	 	
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### COMPREHENSIVE EXAMINATION (PART II : OBJECTIVE TYPE QUESTIONS) TOPICS : TRANSFORMERS AND MEASURING INSTRUMENTS

Maximum Marks: 20 Exam Duration: 30 mins

#### Instructions:

- (1) Each question carries one mark. No negative marks for wrong answers
- (2) Total number of questions: 20
- (3) All questions are to be answered. Each question will be followed by 4 possible answers of which only ONE is correct.
- (4) If more than one option is chosen, it will not be considered for valuation.
- (5) Calculators are not permitted
  - 1. The basic function of a transformer is to change
    - a. The level of the voltage
    - b. The power level
    - c. The power factor
    - d. The frequency
  - 2. If rated dc voltage is applied instead of ac to the primary of the transformer,
    - a. Secondary of the transformer will burn
    - b. Primary of the transformer will burn
    - c. Secondary voltage will be excessively high
    - d. There will be no secondary voltage
  - In a transformer operating at a constant voltage, if the input frequency increases, the core loss
    - a. Increases
    - b. Decreases
    - c. Remains constant
    - d. Increases as square of frequency
  - 4. In a 10kVA, 230/1000 V, single phase transformer, the no-load current will be about
    - a. 0.5A
    - b. 3A
    - c. 8A
    - d. 10A

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- A 100kVA, transformer has full load copper loss of 1600W and iron loss of 900W. It will have maximum efficiency for a load of
  - a. 100 kVA
- b. 56.2 kVA
- c. 75 kVA
- d. 133.3 kVA
- The phase relation between secondary current and secondary terminal voltage depends upon
  - a. Primary winding impedance
  - b. Secondary winding impedance
  - c. Load impedance
  - d. None of the above
- 7. A 5kVA transformer has a turn-ratio (N<sub>1</sub>/N<sub>2</sub>)= 10. The impedance of the primary winding is 3+j5 ohms while that of secondary winding is 0.5+j0.8 ohms. The impedance, in ohms, of the transformer when referred to the primary will be
  - a. 3.5 + j5.8
  - b. 8 + j 13
  - c. 53 +j 85
  - d. 3.05 + j5.08
- 8. Open circuit test on a transformer is usually performed with
  - a. Rated transformer voltage
  - b. Rated transformer current
  - c. Direct current
  - d. High frequency supply
- 9. Transformer core is made up of
  - a. Silicon sheet steel
  - b. Chromel steel
  - c. Low carbon steel
  - d. High content silicon steel
- 10. The magnetizing current in a transformer is rich in
  - a. 3<sup>rd</sup> harmonic
  - b. 5<sup>th</sup> harmonic
  - c. 7th harmonic
  - d. 13th harmonic
- 11. In parallel operation, load sharing by transformers is according to
  - a. Per unit impedance
  - b. kVA rating
  - c. kW rating
  - d. efficiency
- 12. if a 500kVA, 200Hz transformer is operated at 50 Hz, its kVA rating will be
  - a. 2000
- b. 125
- C.250

	NAME:
	ROLL NO.:
4.0 (17)	
13. The m	ain function of damping torque in an indicating electrical instrument is to
	Bring the pointer to rest quickly
	Prevent sudden movement of the pointer
	Make pointer deflection gradual
d.	Provide friction
14 If an a	mmeter is used as a voltmeter, in all probability it will
	Indicate much higher reading
	Give extremely low reading
	Indicate no reading at all
	Burn out
15 A mos	ving coil instrument has a resistance of 0.5 ohms and full-scale deflection of 0.1 A.
	vert it into an ammeter of 0-10A, the shunt resistance should be
	0.004 ohms
	0.005 ohms
	0.050 ohms
The second second	0.1 ohms
u.	
16. Freque	ency can be measured by using
	Maxwell;s bridge
	Schering bridge

17. The source of emission of electrons in a CRT is

c. Heaviside Campbell bridge

a. PN junction

d. Wien's bridge

- b. A barium and strontium oxide coated cathode
- c. Accelerating anodes
- d. Post accelerating anodes
- 18. Creeping in a single phase induction type energy meter may be due to
  - a. Overcompensation for friction
  - b. Overvoltage
  - c. Vibrations
  - d. All the above
- 19. Electrostatic type instruments are primarily used as
  - a. Ammeters
  - b. Wattmeters
  - c. Voltmeters
  - d. Ohmmeters
- 20. A 1mA ammeter has a resistance of 100 ohms. It is to be converted to a 1 A ammeter.

The value of shunt resistance is

a. 0.001 ohms b. 0.1001 ohms

c. 100000 ohms

d. 100 ohms

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## COMREHENSIVE EXAMINATION (Part II - Objective type)

1. MA101 Calculus - 1 question

2. MA103 Differential Equations - 1 question

3. BE100 Engineering Mechanics - 2 questions

4. BE110 Engineering Graphics - 2 questions

5. BE103 Sustainable Engineering - 2 questions

6. BE102 Design & Engineering - 2 questions

7. 6 Branch specific core courses published in the website - 40 questions minimum 6 questions from each course)

Maximum marks: 50

Exam Duration: 1 hour

## Instructions:

(1) Each question carries one mark. No negative marks for wrong answers

(2) Total number of questions: 50

(3) All questions are to be answered. Each question will be followed by 4 possible answers of which only ONE is correct.

(4) If more than one option is chosen, it will not be considered for valuation.
(5) Calculators are not permitted

## SAMPLE QUESTIONS

(Note: Only 12 sample questions are given here -1 from each course)

# QUESTIONS FROM COMMON COURSES

1. = x x Sin Lt x ) 2 (0 F

(A) 1 (B) 2 (C) 0 (D) \( \infty\)

2. The following partial differential equation used in nonlinear mechanics is

(A) linear, 3rd order (B) nonlinear, 3rd order

(C) linear, 1st order (D) nonlinear, 1st order

3. The resultant of two forces equal in magnitude acting at a point has also the same magnitude as each force. The angle between the forces is (A).30o (B).45o (C).90o (D).120o

4. The front view in orthographic projection of a right circular cone with its base horizognal inclosed (A), right angled triangle (B), scalene triangle (C), isosceles triangle (D), Circle A J C C J

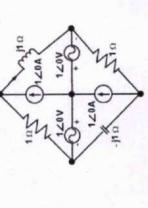
6. A seven-segment display (SSD) is commonly used in electronic calculators. It has seven different illuminating segments arranged in such a way that it can display numbers from 0-9 by displaying different combinations of segments. Normally segments B and C are used to show number 1.

Which one of the seven segments is the most critical one, that if fails, will show maximum erroneous readings.



A.A B.C C.D D.G

In the circuit shown below, the current through the inductor is



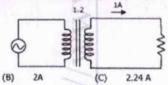
(B) 
$$\frac{-1}{1+j}$$
A (C)  $\frac{1}{1+j}$ A

3

(D) 0 A

8

A single-phase transformer has a turns ratio of 1:2, and is connected to a purely resistive load as shown in the figure. The magnetizing current drawn is 1A, and the secondary current is 1A. If core losses and leakage reactance's are neglected, the primary current is



3 A

(D)

(A) 1.41A

9.

Consider the following Sum of Products expression, F.

$$F = ABC + \overline{A}\overline{B}C + A\overline{B}C + \overline{A}BC + \overline{A}B\overline{C}$$

The equivalent Product of Sums expression is

(A) 
$$F = (A + \overline{B} + C)(\overline{A} + B + C)(\overline{A} + \overline{B} + C)$$

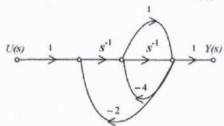
(B) 
$$F = (A+B+\overline{C})(A+B+C)(\overline{A}+\overline{B}+\overline{C})$$

(C) 
$$F = (\overline{A} + B + \overline{C})(A + \overline{B} + \overline{C})(A + B + C)$$

(D) 
$$F = (\overline{A} + \overline{B} + C)(A + B + \overline{C})(A + B + C)$$

10

The signal flow graph for a system is given below. The transfer function  $\frac{Y(s)}{U(s)}$  for this system is



(A) 
$$\frac{s+1}{5s^2+6s+2}$$

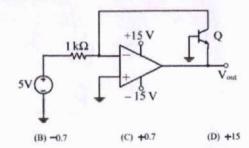
(B) 
$$\frac{s+1}{s^2+6s+2}$$

(C) 
$$\frac{s+1}{s^2+4s+2}$$

(D) 
$$\frac{1}{5s^2 + 6s + 2}$$

11.

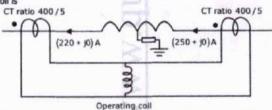
In the circuit shown below what is the output voltage  $(V_{sol})$  in Volts if a silicon transister Q and an ideal op-amp are used?



12.

(A) - 15

Consider a stator winding of an alternator with an internal high-resistance ground fault. The currents under the fault condition are as shown in the figure. The winding is protected using a differential current scheme with current transformers of ratio 400/5 A as shown. The current through the operating coil is



(A) 0.17875 A

(B) 0.2 A

C) 0.375A

(D) 60 k/

SNGCMS

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(Affiliated to KTU, Recognised by AICTE)

Cumulative attendance of 2017-2021 CS S6 till 2/3/2020-11:16:38 AM

Subject: Comprehensive Exam

Register No.	Student Name	Hour Present	Hour Absent	Percentage
	ADISH KUMAR	9	3	75
SNC17CS005	AJAY.V	10	2	83.33
SNC17CS006	ALBIN SABU	9	3	75
SNC17CS007	AMALDAS.M.V	12	0	100
SNC17CS008	AMANA ASHRAF	8	4	66.67
SNC17CS009	ANASWARA KRISHNAN	9	3	75
SNC17CS010	ANIMA.M	7	5	58.33
SNC17CS012	ANKETH LOVEJITH	11	1	91.67
SNC17CS013	ANUJA.N.V	12	0	100
SNC17CS014	ATHIRA.V.V	12	0	100
SNC17CS015	ATHIRA MURALIDHARAN.K.V	8	4	66.67
SNC17CS016	ATHUL NARAYANAN	9	3	75
SNC17CS017	AVANTHIKA.P	12	0	100
SNC17CS018	DEVIKA.K.K	7	5	58.33
SNC17CS020	FATHIMA NIFRU.C.H	9	3	75
SNC17CS022	HEERA MOHAN.K.V	12	0	100
SNC17CS024	LUBNA MUBASHIR MUBASHIR AHMED	11	1	91.67
SNC17CS026	NABEEL ABDUL NASAR MUSTAFA	- 8	4	66.67
SNC17CS027	NAVEEN.K.P	10	2	83.33
SNC17CS028	NEERAJ.T.M	10	2	83.33
SNC17CS029	NIMISHA RAJEEV.P	9	3	75
SNC17CS030	NIVED RAJAN	9	3	75
SNC17CS032	NIVEDYA.P	9	3	75
SNC17CS034	PRANAV.P.V	9	3	75
SNC17CS035	RAHUL.P.P	8	4	66,67
SNC17CS036	SAJINA.T.V	11	1	91.67
SNC17CS037	SANGEETH.A.V	9	3	75
SNC17CS038	SAURAV RITHIN P.M	7	5	58.33
SNC17CS039	VAISHNAV.M.M	12	0	100
SNC17CS040	VYDURYA PRAKASH	11	1	91.67
SNC17CS041	VYSHNAV RAJENDRAN	9	3	75
SNC16CS006	AISWARYA BHASKARAN	6	6	50

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#### ALBIN SABU, AMANA ASHRAF, ANIMA M, VYDURYA PRAKASH

L. V	Whi	ch o	f the	following	is NO	Ta valid	deadlock	prevention	scheme?
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- (a) Release all resources before requesting a new resource
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Answer nother.

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a) thread	. 1. Which of the following is NOT a vaild deadlock prevention so
b) pipe	
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11\ 0	
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a) FIFO (First In First Out) principl b) LIFO (Last In First Out) principle	
	e ni Round Rebin
c) Ordered array d) Linear tree	
d) Linear tree	
12) A data structure in which elements	can be inserted or deleted at/from both the ends but not in
the middle is?	
a) Queue	PCT cognetti Comber is also collect
b) Circular queue	Emilia Annual T
c) Dequeue	
d) Priority queue	
The second secon	a Smile Perinasan Landon Company
	more of Secretary Processing International Confessions
	B) To access the services of operating system, the interface is provi
1	b) such process is term nated
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N. Carlotte	District Colors
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13 are algorithms that learn from their more complete) to generalize, approximate and simplify solution logic.	lex environments (hence
a) Fuzzy Relational DB	
b) Ecorithms	
c) Fuzzy Set  d) None of the mentioned  View Answer	
	Rules are usually expressed :
	Wyariable 18 property THE
Explanation: Local structure is usually associated with linear rathe	er than exponential
14.Commutativity Property of Classical set is	
A.AUB=BUA A^B=B^A	
B.AU(BUC)=(AUB)UC A^(B^C)=(A^B)^C	
C.AU(B^C)=(AUB)^(AUC) A^(BUC)=(A^B)U(A^C)	View Answer
D.AUA=A A^A=A	
ANS: OPTION A	
15.A problem is first connected to its proposed solution during the	stage in adligated the
A.conceptualization	dissertation:
B.identification	
C.formalization	
D.implementation	b) Probability
ANS:OPTION C	
	ien Anner

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d) None of the m	entioned	
View Answer	air nod simplify solution logic.	
Answer: b		
applying this is the	zzy set theory defines fuzzy operators on fuzzy set hat the appropriate fuzzy operator may not be kn ly uses IF-THEN rules, or constructs that are equ ces.	own. For this reason,
Rules are usually	expressed in the form:	
IF variable IS pr	operty THEN action	
advertisement	is namely associated with linear rather than cris-	
11. Like relationa	al databases there does exists fuzzy relational data	bases.
a) True		
b) False		
View Answer		
Answer: a		
	ce fuzzy relations are defined, it is possible to deverst fuzzy relational database, FRDB, appeared in	
12	is/are the way/s to represent uncertainty.	
a) Fuzzy Logic		
b) Probability		
c) Entropy		
d) All of the ment	tioned	
View Answer		
Answer: d		
Explanation: Ent	tropy is amount of uncertainty involved in data. R	epresented by H(data).
		1
	Dr. LEENA A. V. PRINCIPAL SREEMBRANA DURU COLLEGE OF	Xeen
	ENGINEERING & TECHNOLOGY, PAYYANUR KANNIJR	Dr. LEENA AV

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b) False and harmon sale gallanad to a	d. Fuzzy logic is extension of Crisp sat with an extension.  Tends,
View Answer	
Answer: a	
Explanation: None.	View Answer
8. Fuzzy Set theory defines fuzzy opera	tors. Choose the fuzzy operators from the following.
a) AND	
b) OR	Explanation: None.
c) NOT ad ma (base is sidering shelps	So The room temperature is hot first the hot juge of him represented by
d) All of the mentioned	
View Answer	
Answer: d	
Explanation: The AND, OR, and NOT usually defined as the minimum, maxim	operators of Boolean logic exist in fuzzy logic,
9. There are also other operators, more applied to fuzzy set theory.	linguistic in nature, called that can be
a) Hedges	Explanation: forzy logic deats with languistic variables.
b) Lingual Variable	6. The values of the set membership is represented by
c) Fuzz Variable	
d) None of the mentioned	
View Answer	ci Probabilities
	d) Both Orgres of trails & Probabilities
Answer: a	View Auswer
Explanation: None.	
10. Fuzzy logic is usually represented as	Answer: b
10. Puzzy logic is usuany represented as	
a) IF-THEN-ELSE rules = 0 magwing at	Explanation: Both Probabilities and degree of truth range Lapsaces were the first to utilize fuzzy logic practically

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KANNUR

4. Fuzzy logic is extension of Crisp set with an extension of Truth.	of handling the concept of Partial
a) True	
b) False	
View Answer	
where Chouse the lazzy operators from the followings.	
Answer: a	G/A/g
Explanation: None.	
5. The room temperature is hot. Here the hot (use of lingurepresented by	
a) Fuzzy Set	
b) Crisp Set	
c) Fuzzy & Crisp Set	
d) None of the mentioned	
The state of Realizable and sealing To prediction	Explainations Tip AND, OR, and NOT usually defined as the adminimum, mark
Explanation: Fuzzy logic deals with linguistic variables.	
6. The values of the set membership is represented by	aldaine / Tempuil (d
a) Discrete Set	
b) Degree of truth	
c) Probabilities	
d) Both Degree of truth & Probabilities	
View Answer	
Answer: b	
Explanation: Both Probabilities and degree of truth range	es between 0 – 1. 183 312 1312 314 1-31 18
7. Japanese were the first to utilize fuzzy logic practically	
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Dr. LEEMA A. V. PRINCIPAL SREE MARAYANA GURU CONLEGE OF ENGMEERING & TECHNOLOGY, PAYYANUR KANNUR	Dr. LEENA AV PRINCIPAL SREENARMANA GURU COLLEGE OF

- 1. What is the form of Fuzzy logic?
- a) Two-valued logic
- b) Crisp set logic
- c) Many-valued logic
- d) Binary set logic

View Answer

#### Answer: c

Explanation: With fuzzy logic set membership is defined by certain value. Hence it could have many values to be in the set.

- 2. Traditional set theory is also known as Crisp Set theory.
- a) True
- b) False

View Answer

#### Answer: a

Explanation: Traditional set theory set membership is fixed or exact either the member is in the set or not. There is only two crisp values true or false. In case of fuzzy logic there are many values. With weight say x the member is in the set.

3. The truth values of traditional set theory is \_\_\_\_\_ and that of fuzzy set is

a) Either 0 or 1, between 0 & 1

b) Between 0 & 1, either 0 or 1

c) Between 0 & 1, between 0 & 1

d) Either 0 or 1, either 0 or 1

View Answer

Answer: a

Explanation: Refer the definition of Fuzzy set and Crisp set.

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>	An-time
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- or
- eption at all
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  - a) Stack
  - b) Array
  - c) Queue
  - d) Tree

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	Commence Commence in the Comment of
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- 481	Dr. LEENA AV	
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#### 7) A set of processes is deadlock if

- (a) each process is blocked and will remain so forever
  - b) each process is terminated
  - c) all processes are trying to kill each other
  - d) none of the above

8) Which one of the following is a synchronization tool?

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a) thread		
b) pipe		
(e) semaphore		
d) socket		
<ol><li>When does the ArrayInd</li></ol>	dexOutOfBoundsException occur?	
a) Compile-time		
→ Nun-time		
c) Not an error		
d) Not an exception a	t all me as stored trategolle ed campiner lier	
10) The data structure requ	uired for Breadth First Traversal on a graph	Is? on grawolink and to rotation to
(a) Stack		
b) Array		
c) Queue		
d) Tree		
7		
11) A queue follows		
(a) FIFO (First In First C	Out) principle	
b) LIFO (Last In First C	Out) principle	
c) Ordered array		
d) Linear tree		
12) A data structure in which	ch elements can be inserted or deleted at/fr	om both the ends but not in
the middle is?		
a) Queue		
b) Circular queue		

c) Dequeue
d) Priority queue

a construction of the properties of the design of the contract of the contract

as the services of operating system, the interface is provided by the

vicinity of processes is deading. If

(a) cach process is blocked and will remain so forever

Dr. LEENA AV

SREE NARAWIIA GURU COLLEGE OF ENGINEER IS & TECHNOLOGY PATYANUR, KANNUR

d) 8

7. Which disk scheduling algorithm is known as 'elevator' algorithm

a) LOOK

(b) SCAN

c) CSCAN

(d) CLOOK

8. The basic principle underlying behind the concept of cache memory is

a) Stored program concept

(b) Locality of reference

c) Divide and conquer

(d) None of the above

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9. Dependency preservation is not guarante	ed in the sound against the same and the same against the
a) 3NF	
(b) BCNF	
c) 1NF	
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10. Ensuring isolation property is the responsibilit	v of the
a) Recoverymanagement component of the	
(b) Concurrencycontrol component of the I	
c) Transactionmanagement component of the	
(d) Buffer management component in DBN	
y,	c) Posteruce
11, Computer general-purpose software is basically	y a words of the above
	3 Regular expression for all strings starts
A)system software	
B)data base software	
C)package software	4. The language accepted by Push down.
D)application software	
12. A part of a computer system that consists of da	ta or computer instructions is called
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3. hardware	
4. DOS	
12 Miliah afaha fallawina ia nata magaza stata?	(d) Pash down automata
13 Which of the following is not a process state?  A Blocked	g/A nitruess executed the code
B Terminated	
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14. What do you call a program in execution?	
14. What do you can a program in execution:	
A Process	
B Task	
C Command	
D Instruction of the glin hotored 57 28 m/m	
15. Which of the following is not an example of sys	
A Word Processors	
B Language Translator	
C Utility Software	SIGOED (IN CEORIG
Communication Software	i british de priving underlying behind i
	ed program concept
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	Dr. LEENA AV
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	ENGINEERING & TECHNOLOGY
	PAY YARTIR KARNUK

Anujanh.v Fathima nijtu Heera Mohan K.v

1. A six side die is rolled twice. What is the probability that the sum is 9. Nabeel

a) 1/6

b) 1/9

c) 2/9

d) 1/8

2. Which of the following traversal gives nodes in non-decreasing order in a Binary Search Tree

- a) Inorder
- b) Preorder
- c) Postorder
- (d) None of the above

3. Regular expression for all strings starts with 'ab' and ends with 'aa' is

a ab(a+b)\*aa\*

- (b) ab(a+b)\*aa
- c) ab\*aa
- (d) a\*b\*aa

4. The language accepted by Push down Automaton:

- a) Recursive Language
- (b) Context free language
- c) Linearly Bounded language
- (d) All of the mentioned

5. Pigeonhole principle is the underlying principle of

- a) Pumping lemma
- (b) Turing machine
- c) Context free grammar
- (d) Push down automata

6. A process executes the code

fork ();

fork ();

fork ();

The total number of child processes created is

2/3

b) 4

c) 7

d) 8

7. Which disk scheduling algorithm is known as 'elevator' algorithm and all of

a) LOOK

(b) SCAN

c) CSCAN

(d) CLOOK

8. The basic principle underlying behind the concept of cache memory is

ayStored program concept

- (b) Locality of reference
- c) Divide and conquer
- (d) None of the above

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9. Dependency preservation is not guaranteed in	
a) 3NF	
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0. Ensuring isolation property is the responsibility of th	e gyl (b
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c) Transactionmanagement component of the DB	
(d) Buffer management component in DBMS	b) Proorder
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) Strippinian south and	ac Manda (tibe
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C)package software	
401500000 15800	
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3. Which of the following is not a process state?	
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Dr. LEENA AV

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1. A six side die is rolled twice. What is the probability that the sum is 9. a) 1/6 by 1/9 c) 2/9 d) 1/8 2. Which of the following traversal gives nodes in non-decreasing order in a Binary Search Tree a) Inorder b) Preorder c) Postorder (d) None of the above 3. Regular expression for all strings starts with 'ab' and ends with 'aa' is a) ab(a+b)\*aa\* (b) ab(a+b)\*aa c) ab\*aa (d) a\*b\*aa 4. The language accepted by Push down Automaton: a) Recursive Language (b) Context free language c) Linearly Bounded language (d) All of the mentioned 5. Pigeonhole principle is the underlying principle of a Pumping lemma (b) Turing machine c) Context free grammar (d) Push down automata 6. A process executes the code fork (); fork (); fork (); The total number of child processes created is √a) 3 b) 4 c) 7 d) 8 7. Which disk scheduling algorithm is known as 'elevator' algorithm a) LOOK SCAN c) CSCAN (d) CLOOK 8. The basic principle underlying behind the concept of cache memory is a) Stored program concept (b) Locality of reference c) Divide and conquer

(d) None of the above

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9. Dependency preservation is not guaranteed in	
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(d) 2NF	
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B Language Translator	
C Utility Software	
D Communication Software	
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b) 1/9	
c) 2/9	
<ul><li>d) 1/8</li><li>2. Which of the following traversal gives nodes in non-decrease.</li></ul>	reasing order in a Rinary
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c) Postorder	
3. Regular expression for all strings starts with 'ab' and end	
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(b) ab(a+b)*aa	
c) ab*aa	Bydata but calleyed
(d) a*b*aa	
4. The language accepted by Push down Automaton:	STEWN SE SUSSAINS
a) Recursive Language	
(b) Context free language	16
c) Linearly Bounded language	
(d) All of the mentioned	series (acidano il no mit sibrit
5. Pigeonhole principle is the underlying principle of	The second second
a) Pumping lemma	
(b) Turing machine	
c) Context free grammar	
(d) Push down automata	
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c) 7	
d) 8	
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a) LOOK Committee on the second of the secon	
(b) SCAN	
C) CSCAN	
(d) CLOOK	
8. The basic principle underlying behind the concept of cac	he memory is
a) Stored program concept	N
(b) Locality of reference	Cu-
c) Divide and conquer	
(d) None of the above	200 000 000 000
	Dr. LEENA AV
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	ENGINEERING & TECHNOLOGY PAYYANUR, KANNUR

9. Dependency preservation is not guaranteed in	
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(d) Buffer management component in DBMS	
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D)application software	
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15. Which of the following is not an example of system softw	
A Word Processors	
B Language Translator	
C Utility Software	
D Communication Software	survivore element and the enderlying
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Anaswara - REU No: 06

Pranav - REU No: 24

Eajina - REU No: 26

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MAI (b)

1. A six side die is rolled twice. What is the probability that the sum is 9.

a) 1/6

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c) 2/9

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- 4. The language accepted by Push down Automaton:
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  - a) LOOK
  - √(b) SCAN
    - c) CSCAN
  - (d) CLOOK
- The basic principle underlying behind the concept of cache memory is
  - a) Stored program concept
  - (b) Locality of reference
  - √c) Divide and conquer
    - (d) None of the above

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ENGINEERING & TECHNOLOGY
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a) Recoverymanagement component of the DBMS	
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c) Transactionmanagement component of the DBMS	patrioni (ck. )
(d) Buffer management component in DBMS	
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The state of the s	
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12. A part of a computer system that consists of data or computer	er instructions is called
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B Task	
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15. Which of the following is not an example of system softward	e? 30001a
A Word Processors	
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C Utility Software	
D Communication Software	
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	Dr. LEEMA AV
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1. A six side die is rolled twice. What is the probability that the	sum is 9.	and I wanted to	
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ay 1/6	(b) BONE	23 -	ON INFDAY . b
b) 1/9			ALOWARYA. B
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d) 1/8			
<ol><li>Which of the following traversal gives nodes in non-decreasing</li></ol>	ng order in	a Binary	1
Search Tree		O) (d)	
a) Inorder 21 Maici entrus munuquios menuga			
b) Preorder ZWAIG in impungmon lines.			
c) Postorder			
(d) None of the above			
3. Regular expression for all strings starts with 'ab' and ends wi	ith 'aa' is		
a) ab(a+b)*aa*			
(b) ab(a+b)*aa			
c) ab*aa			
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4. The language accepted by Push down Automaton:	SULLIA STATE	1	
a) Recursive Language	1	A	
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5. Pigeonhole principle is the underlying principle of	1,0	Swritos	
a) Pumping lemma	1/		
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c) Context free grammar		/	
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6. A process executes the code	amwollol	io asid	
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8. The basic principle underlying behind the concept of cache m	emory is		
a) Stored program concept	emory is		
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Divide and conquer	^	/	
(d) None of the above	V	u	
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9. Dependency preservation is not guaranteed in	I. A six side die is rolled twice
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<ul> <li>a) Recoverymanagement component of the DBMS</li> </ul>	
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Transactionmanagement component of the DBMS	
(d) Buffer management component in DBMS	
11. Computer general-purpose software is basically a	
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A)system software	
B)data base software	
C)package software	
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12. A part of a computer system that consists of data or computer	uter instructions is called
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15. Which of the following is not an example of system softwa	are? XOOJ (e
A Word Processors	JOI SCAN
B Language Translator	MADED 65
C Utility Software	
D Communication Software	
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	Dr. LEENA AV
	SREE NARAY NA GURU COLLEGE OF
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	NIMIBHA KA
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d) 1/8	10. Fasarine isolation moreovery is the
<ol><li>Which of the following traversal gives nodes in non-</li></ol>	-decreasing order in a Binary
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b) Preorder	(d) Buffer management con-
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	11. Computer general-narpose softw
<ol><li>Regular expression for all strings starts with 'ab' and</li></ol>	
a) ab(a+b)*aa*	
(b) ab(a+b)*aa	
c) ab*aa	South base sith are
(d) a*b*aa	
4. The language accepted by Push down Automaton:	Awitos sendonqu's
a) Recursive Language	Language in the language
(b) Context free language	
c) Linearly Bounded language	A part of compar system has
(d) All of the mentioned	1/6/
5. Pigeonhole principle is the underlying principle of	Simulation (Section 1)
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c) Context free grammar	4. DOS
(d) Push down automata	
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The total number of child processes created is	s in manager a flavour and a program in a
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<ol><li>Which disk scheduling algorithm is known as 'elevan</li></ol>	
(b) SCAN	
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8. The basic principle underlying behind the concept of	cache memory is
a) Stored program concept	Xeen
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c) Divide and conquer	
(d) None of the above	PRINCIPAL
	SREE NAPAYANA GURÚ COLLEGE OF ENGINEERING & TECHNOLOGY
	PAYYANUR, KANNUR

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Dependency preservation is not guaranteed in	
a) 3NF	
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10 Ensuring isolation property is the responsibility of the	
a) Recoverymanagement component of the DBMS	2 Which of the following traversa
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11 Computer general purpose software is besignly a	
11. Computer general-purpose software is basically a	
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C)package software	
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15. Which of the following is not an example of system sof	tware?
A Word Processors	
B Language Translator	
Utility Software	
D. C	
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	Dr. LEENA A V
	SREE MARAWANA GURU COLLEGE OF
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Anketh.

1. A six side die is rolled twice. What is the probabilit	ty that the sum is 9. Athara W
- 116	Devika K·K
a) 1/6	
b) 1/9 ×	Wind:
c) 2/9	
d) 1/8	10. Ensurghe registrant property is the
<ol><li>Which of the following traversal gives nodes in nor</li></ol>	n-decreasing order in a Binary
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1 1 2	
c) Postorder	
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3. Regular expression for all strings starts with 'ab' ar	nd ends with 'aa' is
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(b) ab(a+b)*aa \	
c) ab*aa	standing and stale let
(d) a*b*aa	
4. The language accepted by Push down Automaton:	STEWN DE DURCHMAN
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(b) Context free language	
c) Linearly Bounded language	E. A. port of a computer waste to that a
(d) All of the mentioned	1.6
5. Pigeonhole principle is the underlying principle of	16
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7. Which disk scheduling algorithm is known as 'eleva	ator' algorithm
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c) CSCAN	
(d) CLOOK	Chalar Software
8 The basic principle underlying behind the concept of	
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(b) Locality of reference	Name
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(d) None of the above	Dr. LEENA AV
	SREE NAFAYANA SURU COLLEGE OF
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c) 1NF	
(d) 2NF	
	EV PULL
0. Ensuring isolation property is the responsibility of the	2. With the following reverse
a) Recoverymanagement component of the DBM	
(b) Concurrency control component of the DBMS	
c) Transactionmanagement component of the DB	CIMS Care
(d) Buffer management component in DBMS	
1 0	
Computer general-purpose software is basically a	
A)system software	
B)data base software	
C)package software	
D)application software	1b) Context free language
2. A part of a computer system that consists of data or c	computer instructions is called
1. software   In significant of the significant of	
2. chip	a Prime at Iominut
3. hardware	
4. DOS	
3. Which of the following is not a process state?	
7A Blocked	
B Terminated	
C Running	
D Evacution 1	
4. What do you call a program in execution?	
That do you can a program in choosin.	
A Process V	
B Task	
C Command	
D Instruction included a homestal an award at	
5. Which of the following is not an example of system s	
A Word Processors	(D) SUVIN ~
B Language Translator	OTESCAN
C Utility Software	
D Communication Software	(4) CLOOK
Communication Software V	Set he best principle underlying he
	design program concept
Kelen	the direction of reference
- V	c) Divide and conquer
	(d) None of the above
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1. b

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DEPARMENT OF CIVIL ENGINEERING STUDENTS LIST 2017-2021

S.No.	Register No.	Student_Name			
1	SNC17CE001	ABDUL MUSAVVIR KASIM			
2	SNC17CE004	AISHWARYA PRAKASH			
3	SNC17CE005	AISWARYA.P.P			
4	SNC17CE006	AJEEBA			
5	SNC17CE008	AKSHATHA KRISHNAN			
6	SNC17CE010	AMEGH.P			
7	SNC17CE011	AMITHA SASIDHARAN			
8	SNC17CE013	ANAGHA.P			
9	SNC17CE014	ANAGHA SREEVALSAN.U.M			
10	SNC17CE015	ANAGHA.T			
11	SNC17CE016	ANJALI.K			
12	SNC17CE018	ANULAKSHMI.P.V			
13	SNC17CE019	APARNA B PREM			
14	SNC17CE020	APSARA.E.K			
15	SNC17CE024	GOKUL AMBILOTH			
16	SNC17CE026	HARITHA.C.V			
17	SNC17CE027	HRISHIKA.M			
18	SNC17CE028	IRINGAKARAN RHISHI SASIDHARAN			
19	SNC17CE029	KEERTHI RAJAN			
20	SNC17CE031	MAHDIYA.K.V			
21	SNC17CE032	MALAVIKA JAYAKUMAR			
22	SNC17CE033	MANEESHA.K.V			
23	SNC17CE035	MUHAMMED WASEEM ALI			
24	SNC17CE036	MUHSIN MUTTOON			
25	SNC17CE037	RAHID P V			
26	SNC17CE038	SAFEERA.K			
27	SNC17CE039	SAYOOJYA SADANANDAN.P			
28	SNC17CE041	SIDHIN.K			
29	SNC17CE042	SNEHA.P.V			
30	SNC17CE043	SREERAG.E.N			
31	SNC17CE044	SREERAG.M			
33	SNC16CE010	ARJUN M V			
34	SNC16CE024	NASHATH JALEEL			
35	SNC16CE026	NEERAJA S			

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### SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY,

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY)

Test 1

Programme& Branch :	BTECH- Civil Engineering	Semester :	06	
Course Code & Name :	CE352- Comprehensive exam	Date :		

Maximum Marks:10

Duration: 15 Minutes

- 1. Which of the following materials is commonly used as a binder in concrete?
  - a) Sand b) Cement c) Gravel d) Steel
- 2. What is the purpose of a footing in a building's foundation?
  - a) To provide insulation
  - b) To support the weight of the structure
  - c) To improve ventilation
  - d) To enhance aesthetic appeal
- 3. Which of the following is NOT a type of roofing material commonly used in construction?
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- 6. Which construction method involves assembling pre-fabricated sections on-site?
  - a) Cast-in-place
  - b) Post-and-beam
  - c) Modular construction
  - d) Timber framing
- 7. What is the function of a retaining wall in construction?

a) To support soil and prevent erosion

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- b) To enhance architectural aesthetics
- c) To provide natural ventilation
- d) To facilitate rainwater harvesting
- 8. What is the purpose of a lintel in building construction?
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  - a) Interior decoration
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  - c) Window installation
  - d) Roof repair
- 10. What is the primary function of flashing in building construction?
  - a) To provide structural support
  - b) To improve energy efficiency
  - c) To prevent water intrusion
  - d) To enhance soundproofing

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### SREE NARAYANA GURU COLLEGF OF ENGINEERING. TECHNOLOGY,

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Programme& Branch: **BTECH- Civil Engineering** 

Semester:

06

Course Code & Name:

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CE

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Programme& Branch : BTECH- Civil Engineering Semester : 06

Course Code & Name : CE352- Comprehensive exam Date :

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Programme& Branch : BTECH- Civil Engineering		Semester :	06
Course Code & Name :	CE352- Comprehensive exam	Date :	

Maximum Marks:10

Duration: 15 Minutes

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		Test 1		
Programme& Branch : BTECH- Civil Engineering Semester		Semester :	06	
Course Code & Name :		CE352- Comprehensive exam	Date :	

Maximum Marks:10

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Programme& Branch:

#### SREE NARAYANA GURU COLLEGE OF ENCINEERING Q TECHNOLOGY,

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY)

Date

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Semester: 06 **BTECH- Civil Engineering** 

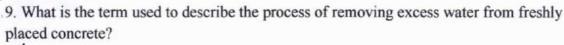
Course Code & Name: CE352- Comprehensive exam

Maximum Marks:10 Duration: 15 Minutes

- 1. What is the primary ingredient in concrete?
- a) Sand
- b) Water
- √c) Cement
  - d) Gravel
  - 2 What is the purpose of adding aggregates to concrete mixtures?
  - a) To increase workability
- √b) To improve compressive strength
  - c) To reduce shrinkage
  - d) To enhance bonding with steel reinforcement
  - 3. What role does water play in the concrete mixture?
  - a) Provides adhesion
- Activates the cement
- Enhances insulation
- d) Adds color
- 4. Which admixture is commonly used to accelerate the setting time of concrete?
- a) Retarder
- b) Superplasticizer
- c) Accelerator
- √d) Air-entraining agent
  - 5. What is the typical water-cement ratio for normal concrete?
  - a) 0.2
- (b) 0.5
  - c) 1.0
  - d) 2.0
  - 6. Which type of cement is suitable for use in marine environments due to its resistance to sulfate attack?
  - a) Portland cement
  - b) Rapid hardening cement
  - c) Low-heat cement
- d) Sulphate-resistant cement
  - 7. What is the purpose of curing concrete after placement?
  - a) To increase strength
  - b) To prevent shrinkage cracks
- To improve durability
- All of the above
- 8. Which test is commonly performed to determine the compressive strength of concrete?
- a) Sieve analysis

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- b) Slump test
- c) Cube test
- (d) Vee-Bee test



- a) Compaction
- b) Curing
- c) Consolidation
- d) Finishing
- 10Which factor does NOT influence the setting time of concrete?
- a) Ambient temperature
- b) Cement type
- c) Humidity
- Aggregate size

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Programme& Branch: **BTECH- Civil Engineering** Semester: 06 Course Code & Name: CE352- Comprehensive exam Date

Maximum Marks:10

Duration: 15 Minutes

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Test 3

CE

Programme& Branch:	BTECH- Civil Engineering	Semester :	06
Course Code & Name :	CE352- Comprehensive exam	Date :	

Maximum Marks:10

Duration: 15 Minutes

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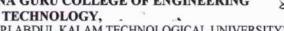


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Programme& Branch:	BTECH- Civil Engineering	Semester :	06	
Course Code & Name :	CE352- Comprehensive exam	Date :		

Maximum Marks:10

Duration: 15 Minutes

- 1. What is the primary ingredient in concrete?
- a) Sand
- b) Water
- (c) Cement
- d) Gravel
- 2 What is the purpose of adding aggregates to concrete mixtures?
- a) To increase workability
- b) To improve compressive strength
- (c))To reduce shrinkage
- d) To enhance bonding with steel reinforcement
- 3. What role does water play in the concrete mixture?
- a) Provides adhesion
- (b) Activates the cement
- Enhances insulation
- d) Adds color
- 4. Which admixture is commonly used to accelerate the setting time of concrete?
- a) Retarder
- b) Superplasticizer
- (c)Accelerator
- d) Air-entraining agent
- 5. What is the typical water-cement ratio for normal concrete?
- a) 0.2
- b) 0.5
- (C)1.0
- d) 2.0
- 6. Which type of cement is suitable for use in marine environments due to its resistance to sulfate attack?
- a) Portland cement
- (b) Rapid hardening cement
- c) Low-heat cement
- d) Sulphate-resistant cement
- 7. What is the purpose of curing concrete after placement?
- a) To increase strength
- b)To prevent shrinkage cracks
- c) To improve durability
- d) All of the above
- 8. Which test is commonly performed to determine the compressive strength of concrete?
- a) Sieve analysis

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- b) Slump test
- (C) Cube test
- d) Vee-Bee test
- 9. What is the term used to describe the process of removing excess water from freshly placed concrete?
- a) Compaction
- b) Curing
- (C) Consolidation
- d) Finishing
- 10Which factor does NOT influence the setting time of concrete?
- a) Ambient temperature
- b) Cement type
- c) Humidity
- d) Aggregate size

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CE



### SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY,

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY)

Test 2

Programme& Branch:	BTECH- Civil Engineering	Semester :	06
Course Code & Name :	CE352- Comprehensive exam	Date :	

Maximum Marks:10

Duration: 15 Minutes

1.	Which of	the	following	is	NOT a	a constitue	ent	of	concrete?
----	----------	-----	-----------	----	-------	-------------	-----	----	-----------

- a) Aggregate
- b) Cement
- c) Sand
- d) Steel
- 2. What is the primary function of cement in concrete?
  - a) Provides strength
  - by Provides color



- c) Increases workability
- d) Acts as a binder
- 3. What is the term for the process by which concrete hardens over time?
  - a) Setting
  - b) Curing
  - c/Hydration
  - d) Condensation
- 4. Which type of admixture is commonly used to reduce the water content in concrete mixtures without affecting workability?
  - a) Retarder
  - め Superplasticizer
    - c) Accelerator
    - d) Air-entraining agent
- 5. What is the primary role of aggregates in concrete mixtures?
  - a) Increase density
  - b) Provide strength
  - Improve workability



- d) Enhance adhesion
- 6. Which type of cement is commonly used in situations where the risk of thermal cracking is high?
  - a) Portland cement
  - b) Blast furnace slag cement
  - ¿ Low-heat cement
    - d) White cement
- 7. Which test is used to assess the workability of fresh concrete?
  - a) Cube test
  - b) Slump test

c/Compressive strength test



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- d) Flexural strength test
- 8. What is the primary purpose of adding air-entraining agents to concrete mixtures?
  - a) Increase strength
  - b)/Improve workability
  - c) Reduce bleeding
  - d) Enhance freeze-thaw resistance
- 9. Which factor does NOT affect the strength development of concrete?
  - a) Water-cement ratio
  - b) Curing conditions
    - c) Aggregate size
    - d) Ambient temperature
- 10. What is the term for the phenomenon in which freshly placed concrete loses water to the surrounding environment, resulting in a reduction in volume?
  - a) Segregation
  - b) Bleeding
  - Shrinkage
  - d) Creep

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CE

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TEST - 2

Programme& Branch: BTECH- Civil Engineering Semester: 06

Course Code & Name: CE352- Comprehensive exam Date:

Maximum Marks:10

Duration: 15 Minutes

1/0

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  - b) Slump test
    - c) Compressive strength test

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#### SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY,

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Test

Programme& Branch: 06 **BTECH- Civil Engineering** Semester: Course Code & Name : CE352- Comprehensive exam Date

Maximum Marks:10

Duration: 15 Minutes

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  - c) Compressive strength test

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- 8. What is the primary purpose of adding air-entraining agents to concrete mixtures?
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- b) Improve workability
- c) Reduce bleeding
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  - d) Creep





#### SREE NARAYANA GURU COLLEGE OF ENGINEERING. TECHNOLOGY,

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY)

Test-2

CE

Programme& Branch:	BTECH- Civil Engineering	Semester :	06
Course Code & Name :	CE352- Comprehensive exam	Date :	

Maximum Marks:10

Duration: 15 Minutes

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  - b) Cement
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  - b) Blast furnace slag cement
  - c) Low-heat cement
  - d) White cement
- 7. Which test is used to assess the workability of fresh concrete?
  - (a) Cube test
  - b) Slump test
  - c) Compressive strength test

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- d) Flexural strength test
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  - c) Reduce bleeding
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  - Aggregate size
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  - b) Bleeding
  - c) Shrinkage
  - d) Creep

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## SREE NARAYANA GURU COLLEGE OF ENGINEERING (2) TECHNOLOGY,

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Test 2

Programme& Branch:	BTECH- Civil Engineering	Semester :	06	
Course Code & Name :	CE352- Comprehensive exam	Date :		

Maximum Marks:10

Duration: 15 Minutes

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SNGCET-DATACENTRE

#### VISION

A knowledge society promoting human excellence and enlightenment through effective education.

#### MISSION

To provide technical education of the highest quality and standard of excellence for socio-economic progress embedded in clearly articulated values and supported by commitments.

## CLASS RECORD

Name

Ms. SRINDHUNA M

Designation

: ASSISTANT PROFESSOR

Department

: Electronics and Communication Engineering

Academic Year

: 2019-2020

Semester

: EVEN

Subject name

: Comprehensive Exam (EC352)

Class

: S6-BTECH-EC

Batch

: 2017-2021

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SREE NARAYANA GURU COLLEGE OF ENGINEERING AND TECHNOLOGY P.O.CHALAKKODE, PAYYANUR, KANNUR-670307.

APPROVED BY AICTE
AFFILIATED TO A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY
PROMOTED BY : SREE BHAKTHI SAMVARDHINI YOGAM, TALAP, KANNUR.

#### Class Attendance

Roll			Month	01	01	01	01	01	01	01	02	02	02	හ	02	02	
No.	Reg. No.	Name	Date													28	
110.			Hour	4	5	6	6	4	5	6	5	6	5	5	5	6	
1	SNC17EC001	Anjana P M (F)		1	1	/	1	1	1	1	A	A	1	1	1	1	
2	SNC17EC002	Ashna Shiburaj (F)		A	A	0	1	1	1	1	A	19	1	1	A	Ð	
3	SNC17EC003	Ashwin K Raj (M)		A	A	A	A	A	A	A	1	1	1.	1	1	1	
4	SNC17EC004	Aswathi M V (F)		A	P	B	1	1	1	1	A	0	1	1	1	1	
5	SNC17EC006	Gopika Raj Nambiar (F)		1	1	1	/	/	1	1	A	A	1	1	1	1	
6	SNC17EC007	Mohammed Shaz (M)		A	n	0	A	/	A	0	1	1	1	/	1	1	
7	SNC17EC009	Sayooj K (M)		À	0	13	A	B	1	1	1	/	1	1	1	1	
8	SNC17EC010	Shreyalakshmi M (F)		1	1	1	1	1	1	1	A	0	1	1	1	/	-
9	SNC17EC011	Sreeroop Prasad (M)		A	A		A	1	Ð		1	1	1	1	1	1	_
10	SNC17EC013	T p Malavika Sajeev (F)		1	/	1	1	1	1	1	1	1	1	/	/	1	
11	SNC17EC014	Vismaya Manoharan (F)		/	/	/	1	/	1	1	1	/	1	1	1	1	
12	LSNC17EC015	Arya A (F)		/	/	/	/	1	1	/	1	1	1	/	1	1	
13	LSNC17EC016	Karthika T (F)		1	/	/	/	1	1	1	1	1	/	-	1	/	
14	SGT17EC005	Rashmitha.k K (M)		/	/	/	1	/	1	1	1	1	1	/	/	/	
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A. stray loss only,

B. Stray loss and moment of inertia,

C. Temperature rise.

D. effect of flux distortion on iron loss

19. The resistance of the transformer referred to low voltage side of a 240/120 V 1-phase transformer with R1=0.1 ohm and R2=0.03 ohm is

A. 0.055 ohm

B. 0.43 ohm

C. 0.22 ohm

D. 0.1075 ohm

20. For a 1-phase transformer the maximum regulation occurs at 0.5 pf lagging, then the zero regulation occurs at a power factor equals to.....

A. upf

B. 0.5 lead

C. 0.707 lead

D. 0.866 lead

21. Which among the following statement regarding a star-delta 3 phase transformer is not true

A. no problem with third harmonic components

B. unbalanced loads can be handled

C. can operate this connection in parallel with delta-delta

D. there is a 30 Degree phase shift between Secondary to Primary phase voltages

22. A 4 bit pattern that will produce the same pattern when 2's complement is taken.

A. 0001 B. 0010 C. 0100 D. 1000

23. The logical expression F=A +AB can be simplified to

A. F=AB.

B. F=A+B C. F= 1

D. F= A +B

24. In a one-digit BCD adder, the number of bits in the output is

A. 3

B. 4

D. 6

25. If D-FF is modified with switch-tail ring counter connection, the circuit becomes

C. 5

A. SR FF,

B. D FF

C. JK FF

D. T FF

26. The number of Flip Flops required to build Mod-13 counter is

A. 2

B. 3

C. 4

D. 5

27. The capacity of a Memory chip is 8192 Bytes. The number of address lines required are

B. 12 C. 13

D. 14

28. The resistor corresponding to the LSB of a 4-bit Weighted resistor DAC is 64 K ohms. Then the value of resistor assigned to MSB will be

A. 512 k ohm

B. 64 k ohm

C. 16 k ohm

D. 8 k ohm

29. The usual spans with R.C.C. poles are

A. 30-50 m.

B. 50-80 m,

C, 80-100 m, D, 300-500 m

30. Which one is not an advantage of bundle conductors in transmission lines:

A. Increased surface area

B. Inductance reduces and capacitance increases

Page 3 of 5

C. Improvement in SIL and reduction in corona loss

D. Increase in surrounding voltage gradient

31. The surge impedance of a 100 km long underground cable is 100 ohms. For a 50 km long cable it will be

A. 25 ohms

U

B. 50 ohms

C. 100 ohms

D. 200 ohms

32. Bulk power transfer is done through HVDC line because of

A. reduced line power losses

B. reduced harmonics

C. low cost of devices,

D. simple and cheaper protection

33. Buchholz relay is commonly used for protection of

A. Feeders

B. Transformers

C. Generators

D. bus bars

34. Mho relay is normally used for the protection of

A. Long transmission line

B. short line C. Generators D. Transformer

35. In a simple series mass-damper-spring (M-B-K) system the natural frequency is given by

A. √(K/M)

B. K/M

C. √(M/K) D. √(B/M)

36. For a second order system with damping factor ξ=0, the maximum overshoot (Mp) and resonance peak (Mr) will be

A. Mp = 100%, Mr = 100%

B. Mp = 100%, Mr = infinity,

C. Mp = 0, Mr = 100%

D. Mp = 0%, Mr = 100%

37. The steady state error for unit step input applied to ufb system with  $G(s)=5/[s^2(s+2)]$  is

A. infinity

B. 40

C. 0.825

D. 0

38. The breakaway point in the root locus of the given transfer function G(s)H(s) = k(s+3)/s(s+2) will be at

A. Complex conjugates

B. two -ve real axis points

B. Only one break away point D. one in RHP and one in LHP

39. For a stable system GM in dB and PM in degrees should be

A. both +ve

B. GM +ve. PM -ve C. GM -ve. PM +ve D. both -ve

40. Phase angle of the system with G(s) = e<sup>-8</sup>/(s+1), at w=1 rad/s will be...

A. +12 B. -45 D

C. - 102 0

D. -180 0

41. The total derivative of the function 'xy' is

A. xdv+ vdx

B. xdx+ vdv

C. dx+dv

D. dxdv

Reg. No.....

Name: .....

#### APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY SIXTH SEMESTER B.TECH DEGREE EXAMINATION, APRIL 2018

#### Course Code: EE 352

#### Course Name: COMREHENSIVE EXAMINATION (EE)

Maximum marks: 50

#### Duration: 1 hours

#### Instructions:

- 1. Each question carries one mark. No negative marks for wrong answers
- Total number of questions: 50
- All questions are to be answered. Each question will be followed by 4 possible answers of which only ONE is correct. Mark the most appropriate answer
- If more than one option is chosen, it will not be considered for valuation.
- 5. Calculators are not permitted.
- 1. Superposition theorem cannot be applied in linear circuits to find out the following variable
  - A. voltage
- B. current
- C. power
- D. none of these
- 2. The source impedance of a non-ideal voltage source is Zs = 6+j 8 Ω and is connected to a resistive load. What should be the load for maximum power transfer.
  - A. 6Ω
- B. 8 Q
- C. 10 \O
- D. 14 Q
- 3. If there are 4 branches and 3 nodes then number of links in a co-tree are?
  - A. 2
- C. 6
- 4. A three element RLC-series circuit is changed to a parallel combination in which all elements are in parallel. As compared to series mode, the natural frequency (wa) and damping factor (E) for the parallel model will have:
  - A. same wn and same &
- B. different w<sub>n</sub> and same ξ
- C. same wn and different &
- D. different w, and different E.
- 5. The Laplace transform of a circuit current is  $I(s) = (5s^2 + 2s + 6)/[s(s^2 + 3s + 3)]$ . The initial value i(o) is
  - A. 2 A
- B. 5A
- C. 6A
- D. infinity
- 6. A two-port network is represented by the following equations,
- $I_1=V_1-0.5V_2$ ,  $I_2=-V_1+V_2$ . Z parameters are given by Z=
  - A.  $Z = \begin{bmatrix} 1 & -0.5 \\ -1 & 1 \end{bmatrix}$ , B.  $Z = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix}$ , C.  $Z = \begin{bmatrix} 1 & -2 \\ -1 & 1 \end{bmatrix}$  D.  $Z = \begin{bmatrix} 2 & 1 \\ 2 & 2 \end{bmatrix}$

- 7. The degree of the numerator polynomial and denominator polynomial in a driving point function may differ by?

#### Page 1 of 5

- C. 0 or 1 A. 0 B. 1

V600

- D. 2
- 8. Which statement is true for a voltage divider self-biasing circuit?
  - A. improvement in Stability factors,
- B. used for both BJT & JFET
- C. can be modified for bias compensation of BJT,
- D. All the above
- The drain current ID for an n-channel JFET at a gate to source voltage V<sub>GS</sub>= 1V is 16mA. The pinch off voltage Vp=5V. Determine  $I_D$  at  $V_{OS} = -2V$ .
  - A. 4 mA

U

- B. 9 mA
- C. 6.4mA D. 32 mA
- 10. Which statement is FALSE for a Class B- push pull amplifier
  - A. Maximum efficiency is 78.5%,
- B. No even harmonic distortion,
- C. Eliminates cross over distortion.
- D. None of the above
- 11. The feedback exists in a common emitter amplifier system with RE unbypassed (Emitter bypass capacitor is removed) is
  - A. Current series FB
- B. Voltage series FB
- C. Current shunt FB
- D. Voltage shunt FB
- 12. The input offset current of an OPAMP is in the range of
  - A. nA
- B. uA
- C. (0.1-1)mA D. 100mA
- 13. Which statement given below is true for a Schmitt trigger
  - i) converts sine wave to rectangular wave,
    - - ii) used as memory iii) used as amplifier
  - iv) acts as regenerative comparator
- A. i & ii only,
- B. All.
- C. i, ii & iv
- D. ii & iii only
- 14. Which statement is NOT applicable to slew rate limitation in OPAMPS
  - A. restriction on signal frequency
- B. restriction on signal magnitude
- C. affects the nonlinear distortion
- D. affects offset voltages and bias currents
- 15. A 4-pole dc machine is having double layer lap winding arranged in 80 slots. Winding resistance is  $0.2 \Omega$  per conductor. Determine the armature resistance (Ra).
- A. 8 ohms
- B. 4 ohms
- C. 2 ohms
- D. 1 ohm
- 16. The equalizer connections are used for
  - A. Lap winding

- B. Wave winding
- C. Wave winding with dummy coils
- D. Not for dc windings
- 17. DC Series generator is used for
  - A. charging batteries,
- B. booster in distribution systems,
- C. Arc welding
- D. Lamp loads
- 18. Retardation test on dc shunt motor is conducted to determine

#### FIRST MOCK TEST

#### Course Code: EC352 Course Name: COMPREHENSIVE EXAM (EC)

Max. Marks: 50

Duration: 1 hour

#### Instructions:

Each question carries one mark. No negative marks for wrong answers All questions are to be answered. If more than one option is chosen, it will not be considered for valuation. Calculators are not permitted

- 1. Maxwell's divergence equation for the magnetic field is given by
  - a)  $\nabla x B=0$
- b)  $\nabla B = 0$  c)  $\nabla x B = \rho$
- d) ∇ B= 0
- 2. Which of the following statements is correct with regard to the directions of E and H in TEM mode of propagation
- a) Both E and H are entirely transverse to the direction of propagation.
- b) E is entirely transverse to H and H has component in the direction of propagation.
- c) E has a component in the direction of propagation.
- d) Both E and H has a component in the direction of propagation.

c) 1/2

- 3. If VSWR is 3, then magnitude of reflection coefficient will be
  - a) 1/4
- b) 1/3
- d) 1
- 4. An air filter rectangular waveguide has dimensions 6 x 4 cm, the cutoff frequency for TEm is
  - a) 2.5 GHz
- b) 25 GHz
- c) 25 MHz
- d) 5 GHz
- 5. Phase velocity Vpand group velocity V<sub>k</sub> in a waveguide (C is velocity of light) are related as
  - a)  $V_y V_y = C^2$
- b)  $V_g V_g = C$
- c)  $V_n / V_n = C$

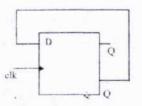
- 6. The dominant mode in TE wave
  - a) TE 11
- b) TE 01
- c) TE in
- d) TE 12

Page 1 of 6

- 7. The depth of penetration of a wave in a loosy dielectric increase with increasing a) Conductivity d) Permittivity
  - b) Wavelength c) Permeability
- 8. For a dominant mode in a rectangular waveguide with breadth 10 cm, guide wavelength for a signal of 2.5 GHz will be
  - a) 12 cm
- b) 15 cm
- c) 18 cm
- d) 20 cm
- 9. The logic expression Y = A+ AB is equivalent to
  - a) Y = AB
- bi AB
- c) AB
- d) A+B
- 10. Minterms corresponding to decimal number 15 is
- b) ABCD c) A+B+C+D d) A+B+C+D
- 11. A carry look ahead adder is frequently used for addition because it is
  - a) Faster b) more accurate c) use fewer gates d) costs less

- 12 The output Qn of a JK flipflop is zero. If it changes to 1 when a clock pulse is applied. Then the input Ja and Ka are respectively

  - a) 0 and X b) 1 and X c) X and 0
- d) X and 1
- 13. How many flipflops are required to build a binary counter circuit from 0 to 1023?
  - a) 5
- 616
- c) 10
- d) 12
- 14. For a circuit shown in figure below what is the frequency of the output Q



- a) Twice the input clock frequency.
- b) Half the input clock frequency.
- b) Same as the input clock frequency. d) None of these.
- 15. In a sequential circuit the output at any instant of time depends on
  - a) Only on the inputs present at that instant of time
  - b) On the past output as well as present inputs
  - c) Only on past inputs
  - d) Only on present outputs

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16. A pulse train can be delayed by a finite number of periods using clocks in

- a) PISO
- b) SIPO
- c) PIPO
- d) SISO

17. A 1000 KHz carrier is simultaneously modulated with 300 Hz and 200 Hz audio sine waves. The frequency which will not be present in output is

- a) 998 KHz
- b) 999.7 KHz
- c) 1000.3 KHz
- d)700 KHz

18. If modulation index of AM wave is changed from 0 to 1, the transmitted power

- a) Increases by 50%
- b) Increases by 75%
- c) Increases by 100%
- d) Remains unaffected

19. In a superheterodyne receiver IF is 455KHz ,if it is tuned to 1200KHz,the image frequency will

a) 1655 KHz b) 745 KHz e) 2110 KHz d) 910 KHz

20. In the generation of a modulated signal, a varactor diode can be used for

- a) FM generation only.
- b) AM generation only.
- c) PM generation only.
- d) Both (b) and (c).

21. Which of the following statements is NOT correct regarding the signal  $x(t) = 5 \sin(2\pi x)$  $10^3$ t)sin( $2\pi \times 10^6$ t)?

- a) Upper sideband frequency is 1001000.
- b) Lower sideband frequency is 999000.
- c) x(t) is a DSB-SC signal.
- d) x(t) is an AM signal.

22. If an angle modulated signal is given by  $fa(t) = \cos(2 \times 10^8 \pi t + 75 \sin 2 \times 10^5 \pi t)$  then peak frequency deviation of the carrier is

- a) IKHz
- b) 7.5 KHz
- c) 75 KHz
- d) 100 MHz

23. The fundamental period of the signal  $e^{j\omega \delta t}$  is

- a) 1/mo
- b) 2πmo
- c) 2π/mo
- d) coo/2

24. Energy of a signal Aö[n] + Aö[n-1] is

- a) 2A
- b) A2/2
- c) A /4
- d) A2

25.  $\int_{-\infty}^{\infty} \sin(t)\delta(t)dt$ is equal to

- a) x
- b) \psi/2
- c) 0
- d) 1/2

26. The Nyquist sampling rate of the continuous time signal Sinc(500t) is

- a) 1000 Hz.
- b) 100 Hz.
- c) 500 Hz
- d) 250 Hz

27. If x(t) has the Fourier transform X(t), the Fourier transform of x(-t) is

- a) X(1)
- b) [X(I)]
- c) -X(1)
- d) X(-f)

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28 If x(t) is a real signal, then

- a) Magnitude response and phase response are even
- b)Magnitude response and phase response are odd
- c)Magnitude response is even and phase response is odd.
- d)Magnitude response is odd and phase response is even.

29. Consider the network graph shown in the figure below. Which one of the following is 'NOT' a tree of the group?

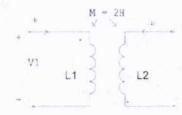


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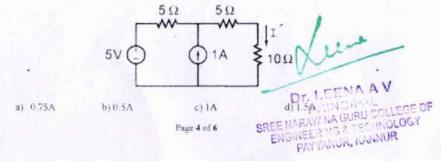


30. For the circuit shown, determine  $V_1$  if  $i_2 = 5 \sin(45t)$  and  $i_1 = 0$ 



- a) 450 cos(45t)v
- b) 450 sm(45t)v
- c) -450 cas(45t)v
- d) 45 sin(45t)v

31. Find the current I (in amperes) in the following circuit



32. The average power delivered to an impedance  $(4-i3)\Omega$  by a current 5 cos  $(100\pi t + 100)$  A is

a) 44.2 W

b) 50 W

c) 62.5 W

d) 125 W

33. A two port device is defined by the following pair of equations  $i_1 = 2 v_1 + v_2$  and  $i_2 = 2 v_1 + v_2$ , its admittance parameters are (y11, y12, y21, y22) are given by

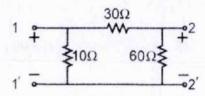
a) [2,1,2,1]

b) [1,2,2,1]

c) [2.1,1,1]

d) [1,2,1,2]

34. For the two port network shown in the figure, the impedence (Z.) matrix (in  $\Omega$ ) is



a)  $\begin{bmatrix} 6 & 24 \\ 42 & 9 \end{bmatrix}$  b)  $\begin{bmatrix} 9 & 8 \\ 8 & 24 \end{bmatrix}$  c)  $\begin{bmatrix} 9 & 6 \\ 6 & 24 \end{bmatrix}$  d)  $\begin{bmatrix} 42 & 6 \\ 6 & 69 \end{bmatrix}$ 

35. An integrator circuit is

a) Low pass filter b) high pass filter

c) band pass filter

d) all pass filter

36. If a transistor is in saturation

a)le = Bla

b) Ic > B In

c) lo < Bla

 $d) L_2 = I_0$ 

37. Zener breakdown diodes have breakdown voltage which has

a) Has positive temperature coefficient.

b) Has negative temperature coefficient.

c) is independent of temperature

d) None of the above.

38. The type of negative feedback in a RC coupled amplifier without bypass capacitor is

a) Voltage series feedback

b) Current series feedback.

c) Voltage shunt feedback.

d) Current shunt feedback

39. The phase shift produced by feedback network in a Weinbridge oscillator is

a)180°

d) 270°

40. The dissipation at the collector is zero in the quiescent state and increases with excitation in the case of a

a) Class A series fed amplifier

b) Class A transistor coupled amplifier

c) Class AB amplifier

d) Class B amplifier

41. The total derivative of the function 'xv' is

a) xdy+ vdx

b) xdx+ vdv

c) dx+ dv

d) dxdy

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42 For the differential equation  $\frac{dy}{dx}$  + 5y=0 with y(0) =1 the general solution is b) e-51 a) e51 c) 5e-51

d) none of these

43. The radial component of velocity for a particle moving in a circular path is

b) radius itself

c) variable

d) none of the above

44. In which Quadrant the HP comes above XY line and VP comes below XY line for orthographic

a)First Ouadrant

b)Second Quadrant c)Third Quadrant d)Fourth Quadrant

45. The force applied on a body of mass 100 kg to produce an acceleration of 5 m/S<sup>2</sup> is

a) 20 N

b) 100 N

c) 500 N

d) None of these

46. Which was the major green building rating system developed by TERI

a) GRIHA

b) LEED

c) BREEAM

d) CASBEE

47. Which stage is directly responsible for the technical functioning of the product

a) engineering function

b) research function

c) manufacturing function

d) commercial function

48. The first full-scale and usually fully functional forms of a new design is called

a) Model

b) prototype

c) rapid prototype

d) design attribute

49. The Air Pollution and Control Act, popularly known as the 'Air Act' was passed for the first time in US in

a) 1955

b) 1999

c) 2004

d) 2015

50. Probability of a product successfully operation for a specific period of time is called a) reliability b) durability c) conformance d) serviceability

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## FIRST MOCK TEST ANSWER KEY

	Course Name: Compre	hensive Examinatio	n (EC)				
Max. Marks: 50		Duration: 1 Hou					
	ANSW	ER KEY					
1	В	26	C				
2	A	27	D				
3	C	28	C				
4 .	Α .	29	В				
5	A	30	C				
6	C	31	В				
7	В	32	В				
8	В	33	, A				
9	D	34	C				
10	A	35	A				
11	A	36	В				
12	В	37	В				
13	C	38	В				
14	В	39	В				
15	В	40	D				
16	D	41	A				
17	A or D	42	В				
18	A	43	A A				
19	C	44	C				
20	A	45	C				
21	D	46 .	A				
22	. с	47	В				
23	C	48	A				
24	A	49	A				
25	C	50	A				

15/3/19

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### SECOND COMPREHENSIVE WRITTEN EXAMINATION

1. Determine the order and degree of the differential equation.

$$2x \frac{d^4y}{dy^4} + 5x^2 \left(\frac{dy}{dx}\right)^3 - xy = 0$$

- a) Fourth order, first degree
- b) Third order, first degree
- c) First order, Fourth degree
- d) First order, third degree
- 2. Maclaurin's expansion of ex is

a. 
$$x - \frac{\chi^2}{2} + \frac{\chi^3}{3} + \dots$$

$$b \cdot 1 - \frac{x^2}{2!} + \frac{x^4}{4!} + \cdots$$

$$\frac{d \cdot 1 + x^{2} + x^{2}}{1!} + \frac{x^{2}}{2!} + \dots$$

- Identify which statements are true to Copyright law
  - a) Copyright law, unlike other Intellectual Property Rights (IPR), is global in nature.
  - b) Copy right gives protection for Expression of an Idea and not for the idea itself.
  - c) Statement a is right and b is wrong
  - d) Both statements are right
  - Touch pad of a Laptop is an example for the following concept
  - a. Complex is simple
  - b. Design for Assembly
  - c. Design for Reliability
  - d. Part reduction
- D' Alembert's principle is used for
- (a) reducing the problem of kinetics to equivalent statics probl
- (b) determining stresses in the truss
- (c) stability of floating bodies
- (d) designing safe structures



- (a) the center of gravity of a uniform lamina lies at
  - (b) the bottom surface
  - (c) the mid point of its axis
  - (d) all of the above
  - (e) none of the above.
- (a)Rectangle
  (b)Circle
  (c)Ellipse
  (d)None of the above
- Which state grid is use to design perspective

  (a) Parametric
  (b) Isometric
  (c) Pro-optic
  (d) Rectangular
- The pathogenic bacteria do not last long at a pH

  a) >11

  b) <11

  c) <8

  d) >8
- What is the dose of time required in the excess time treatment?

  a) 10-20ppm
  b) 0-10ppm
  c) 5-10ppm
  d) 5-20ppm
- 11. Function of frequency mixer in super heterodyne receiver is
  - a. Amplification
  - b. Filtering
  - c. Multiplication of incoming signal and the locally generated carrier
  - d. None of the above

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- Calculate the modulation index when the un modulated carrier power is 15KW, and after modulation, carrier power is 17KW.
  - a. 68%
  - b. 51.63%
  - c. 82.58%
  - d. 34.66%
- 13. Determine the Bandwidth of a FM wave when the maximum deviation allowed is 75KHz and the modulating signal has a frequency of 10KHz.
  - a. 170 KHz
  - b. 200 KHz
  - c. 100 KHz
  - d. 1000 KHz
- Frequency components of an AM wave (m = modulation index) are
  - a. Carrier frequency (ω<sub>c</sub> ) with amplitude A
  - b. Upper side band  $(\omega_c + \omega_m)$  having amplitude mA/2
  - c. Lower side band  $(\omega_c \omega_m)$  having amplitude mA/2
  - d. All of the above
- 15 %. The modulation index of FM is given by
  - a.  $\mu$  = frequency deviation/ modulating frequency
  - **b.**  $\mu = \text{modulating frequency / frequency deviation}$
  - c.  $\mu$  = modulating frequency/ carrier frequency
  - **d.**  $\mu' = \text{carrier frequency} / \text{modulating frequency}$
  - (6. What is the maximum transmission efficiency of an AM signal?
    - a. 64.44%
    - b. 33.33%
    - c. 56.66%
    - d. 75.55%
    - The discrete-time signal  $x(n) = (-1)^{-n}$  is periodic with fundamental period
      - (A) 6
      - (C) 2

- (B) 4
- (**D**) 0



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- The Fourier transform of the exponential signal e jm o tis
  - (A) a constant.

(B) a rectangular gate.

(C) an impulse.

- (D) a series of impulses.
- (9. The unit impulse response of a linear time invariant system is the unit step function u(t). For  $t \ge 0$ , the response of the system to an excitation

$$e^{-at}u(t)$$
,  $a > 0$ , will be

(A) ae-at.

(B)  $\frac{1-e^{-at}}{a}$ . (D)  $1-e^{-at}$ .

(C)  $a(1-e^{-at})$ .

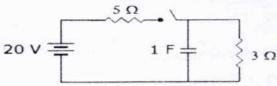
- 20. Inverse Fourier transform of  $u(\omega)$  is
  - (A)  $\frac{1}{2}\delta(t) + \frac{1}{\pi t}$ (C)  $2\delta(t) + \frac{1}{\pi t}$

(B)  $\frac{1}{2}\delta(t)$ .

- (D)  $\delta(t) + \operatorname{sgn}(t)$ .
- If G(f) represents the Fourier Transform of a signal g (t) which is real and odd 21 symmetric in time, then G (f) is
  - (A) complex.
  - (C) real.

- (B) imaginary.
- (D) real and non-negative.
- Inverse Fourier transform of u(\omega) is 22.
  - (A)  $\frac{1}{2}\delta(t) + \frac{1}{\pi t}$ (C)  $2\delta(t) + \frac{\pi t}{\pi t}$

- In the circuit of figure the voltage across capacitor when switch is closed at  $t = \infty$  is 23.

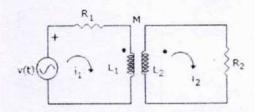


- a) 0.V
- b) 20 V
- c) very large
- d) 7.5 V

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24. For the network of figure KVL for first loop is



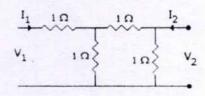
$$\underline{A} \quad v(t) = R_1 i_1 + L_1 \frac{di_1}{dt} + M \frac{di_2}{dt}$$

$$\underline{\mathbf{B}}_{\cdot} \quad \mathbf{v}(t) = \mathsf{R}_1 i_1 \cdot \mathsf{L}_1 \ \frac{d i_1}{d t} \cdot \mathsf{M} \ \frac{d i_2}{d t}$$

C. 
$$v(t) = R_1 l_1 + L_1 \frac{dl_1}{dt} - M \frac{dl_2}{dt}$$

$$\underline{D} \quad v(t) = R_1 i_1 - L_1 \frac{di_1}{dt} + M \frac{di_2}{dt}$$

25. For the network of figure,  $z_{11}$  =



- Α. 5/3 Ω
- B. 3/2 Ω
- C. 2 \O
- D. 2/3 Ω ·
- 26. For a network having 1  $\Omega$  resistor and 1 F capacitor in series Z(s) =
  - A.  $\frac{s+1}{s}$
  - B.  $\frac{s}{s+1}$
  - C. 1+3
  - D.  $\frac{1}{s+1}$

Xue

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- 27. An RLC series circuit has  $R = 8 \Omega$ ,  $X_L = 8 \Omega$  and  $X_C = 8 \Omega$  Its impedance is
  - A.  $8+j16\Omega$
  - B.  $8+i8\Omega$
  - C. 8 Ω
  - D. 24 Ω
- 28. 10 .To find current in a resistance connected in a network, Thevenin's theorem is used  $V_{TH} = 20 \text{ V}$  and  $R_{TH} = 5 \Omega$ . The current through the resistance
  - a) is 4 A.
  - b) is 4 A or less
  - c) is less than 4 A
  - may be 4 A or less or more than 4 A
- 29. The output of a logic gate is '1' when all its input are at logic 0. The gate is either
  - (a) NAND or an EX OR gate

(c) an OR or an EX NOR gate

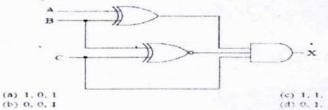
(b) NOR or an EX-NOR gate

- (d) an AND or an EX-OR gate
- 30. The Boolean function Y = AB + CD is to be realized using only 2 input NAND gates.
  The minimum number of gates required is
  - (a) 2

(c) 4

(b) 3

- (d) 5
- 3 / For the logic circuit shown in the figure, the required input condition (A.B.C) to make the output X =1 is

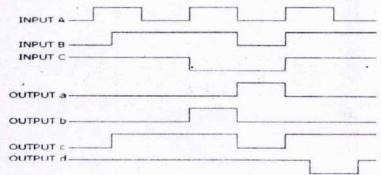


- 32. In a 4 bit counter the outputs of 3 JK FFs from MSB downward are connected to the NAND gate whose output is connected to CLR
  - a) It is a MOD-14 counter
    - b) It is a MOD-13 counter
    - c) It is divide by-13 counter
    - d) It is divide by-14 counter

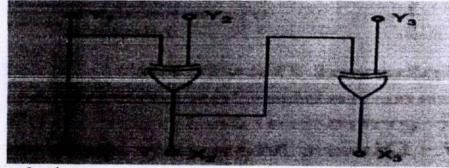
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## (1)

33. For a three-input NOR gate, with the input waveforms as shown below, which output waveform is correct?



- a) A
- b) B
- c) C
- d) D
- 34. The logic circuit given below converts a binary code Y1, Y2, Y3 into



- a) excess -3 code
- b)Gray code
- c) BCD code
- d)Hamming code
- 35. How many flip-flops are required to make a MOD-32 binary counter?
  - a) 3
  - b) 45
  - -c) 5
    - d) 6

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- 36. A J-K flip-flop is in a "no change" condition when
  - A. J = 1, K = 1
  - B. J = 1, K = 0
  - C. J = 0, K = 1
  - D. J = 0, K = 0
- The divergence of the vector field  $\vec{A} = x\hat{a}_x + y\hat{a}_y + z\hat{a}_z$  is
  - (a) 0
  - (b) 1/3.

- (c) 1
- (d) 3

- 38 The unit of  $\nabla \times H$  is
  - (a) Ampere
  - (b) Ampere/meter

- (c) Ampere/meter2
- (d) Ampere-meter
- 39. If C is a closed curve enclosing a surface S, then the magnetic field intensity  $\vec{H}$ , the current density  $\vec{J}$  and the electric flux density  $\vec{D}$  are related by
  - (a)  $\iint_{S} \vec{H} \cdot d\vec{s} = \int_{C} \left( \vec{J} + \frac{\partial \vec{D}}{\partial t} \right) \cdot d\vec{l}$

  - (b)  $\iint_{S} \vec{H} \cdot d\vec{l} = \int_{C} \left( \vec{J} + \frac{\partial \vec{D}}{\partial t} \right) \cdot d\vec{s}$ (c)  $\iint_{S} \vec{H} \cdot d\vec{s} = \int_{C} \left( \vec{J} + \frac{\partial \vec{D}}{\partial t} \right) \cdot d\vec{l}$
  - (d)  $\iint_C \vec{H} \cdot d\vec{l} = \int_S \left( \vec{J} + \frac{\sigma \vec{D}}{\sigma t} \right) \cdot d\vec{s}$
- 40. The VSWR can have any value between
  - (a) 0 and 1
  - (b) 1 and + 1

- (c) 0 and ∞
- (d) 1 and ∞

- 41. Divergence theorem is based on
  - a) Biot Savart's law
  - b) Ampere's circuital law
  - c) Gauss's law
  - d) Pascal's law

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			THE HILPS				
42.	A transmission line of 50 $\Omega$ characteristic impedance is terminated with a 100 $\Omega$ resistance. The minimum impedance measured on the line is equal to						
	(a) 0 Ω	(c) 50 Ω					
	(b) 25 Ω	(d) 100 Ω					
43.	Which of the following theorem use the a) Green's theorem b) Gauss Divergence theorem c) Stoke's theorem d) Maxwell equation	curl operation?					
44.	The total electric flux through any close	d surface surrounding char	ges is equal to				

(a) Coulomb's square law (b) Gauss's law

amount of charge enclosed".

- (c) Maxwell's first law
- (d) Maxwell's second law

The above statement is associated with

- 45. A transistor configuration with the lowest current gain.
  - (a) Common base
  - (b) Common emitter
  - (c) Common collector
  - (d) Emitter-follower
- 46. Negative feedback in an amplifier
  - (a) reduces gain

- (b) increases distortion
- (c) reduces bandwidth
- (d) increases noise
- 47. Voltage series feedback results in
  - (a) increase in both i/p and o/p impedance
  - (b) decrease in both i/p and o/p impedance
  - (c) increase in i/p impedance and decrease in o/p impedance
  - (d) decrease in i/p impedance and increase in o/p impedance

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the

- 48. Crossover distortion occurs at
  - (a) Class A o/p stage
- (b) Class B o/p stage
- (c) Class AB o/p stage
- (d) Common pulse o/p stage
- 49. The alpha (α) and beta (β) of a transistor are related to each other as:

(a) 
$$\alpha = \frac{\beta}{\beta + 1}$$

(b) 
$$\beta = \frac{\alpha}{1+\alpha}$$

(c) 
$$\beta = \frac{1+\alpha}{\alpha}$$

(d) 
$$\alpha = \frac{1+\beta}{\beta}$$

50 The Barkhausen criterion for sustained oscillations is given by

(a) 
$$A\beta = 1$$

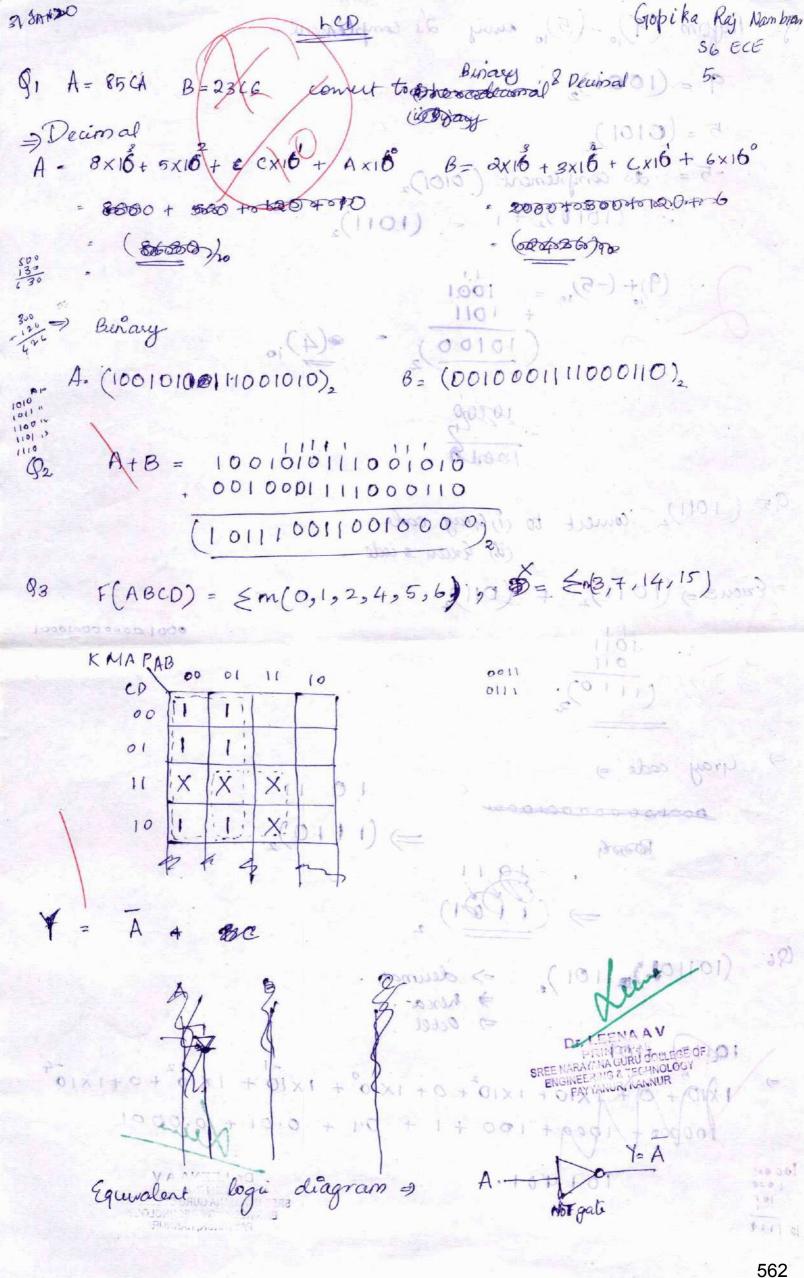
(d) 
$$\angle AB = 180^\circ$$

du

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ENGINEERING A TECHNOLOGY



Peyform (9), - (5), any 2s complement 9 = (1001)2 Discela APRO - A 5 = (0101)2 -5 = d's complement (0101) (1010)2+1 - (1011)2 (9)+(-5),0= 1001 100101010101010101 0110001111000100 (1011)2 comert to (i) Gray code 001100 (ii) Excer 3 code =) {20003=) (1011)2 + (011)2 - 3 - 1 - (0) 10 } Gray code =) =) (1110) 80006 Q6. (101101) 101). 10/10/-1101 1 x10+ 1 x10+ 0+ 1x10 + 1x10 + 1x10 0.1 + 0.01 + 0.0001 181 HOT.A & morph

$$(101101.1101)_{2} \Rightarrow 102^{5} + 0 + 1\times2^{5} + 0 + 1\times2^{2} + 1\times2^{2$$

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Streyalakshni M

(1) Check the system is causal or not 9 (2)

 $\beta(n) = 2^n u(n)$ 

(2) How to cheek con correlation of two syngle (2)

(3). Find final value of pcs) = 5 (5+1)(5+3) (2)

(4) what is an energy signs (? (2)

(5) plot uct-3) + uct +3) (2)

(3)  $F(s) = S(s^2 + 3s + 2) = A + B = S(s^2 + 3s + 2)$  (8+1)(s+3) = S(1) + B = S(1) + B = S(1)

lt f(1) = 1+ 8F(5) t→00 5→0

Lt f(+)= lt S[S(S+3S+2)]

t→∞
S→0. (S+D(S+3) → + (8-+)N

lt f(+) = l+ S [ s³+ 2s²+2s ]

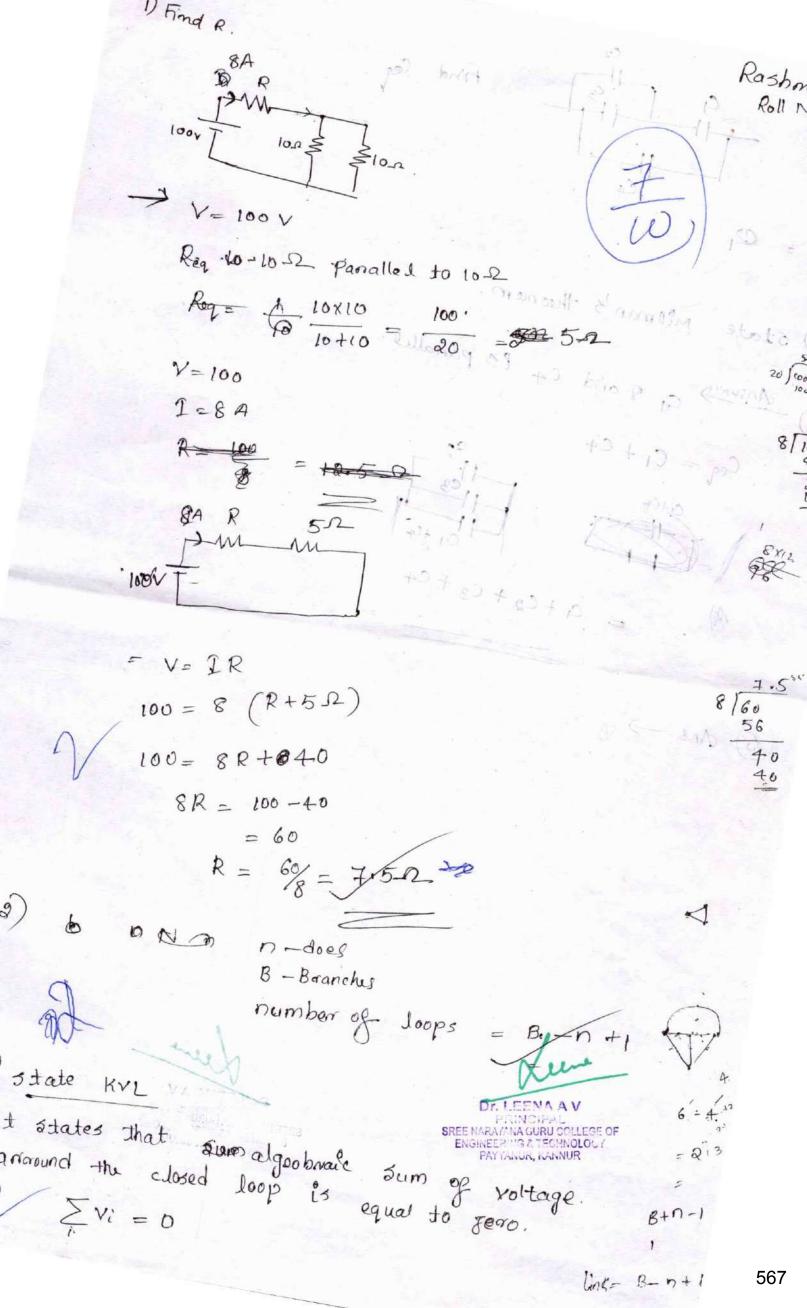
1→0 [(s+1)(s+3)]

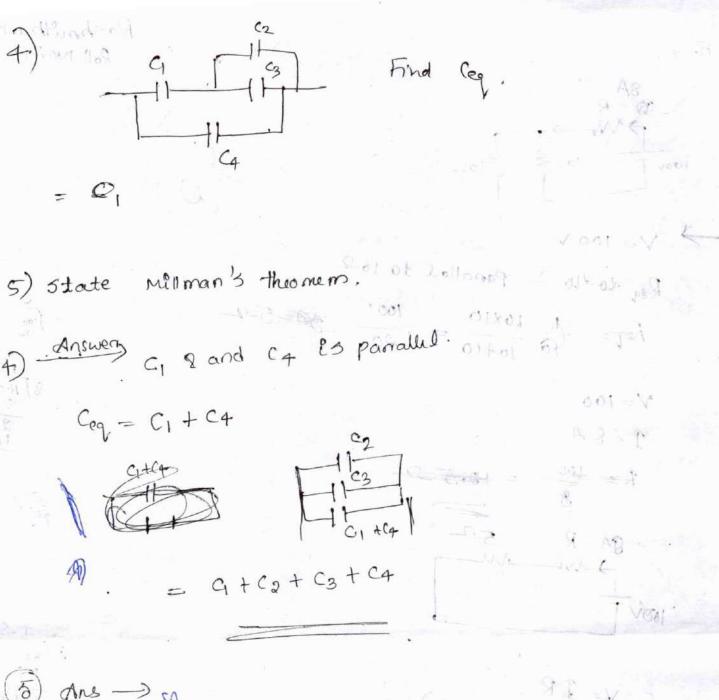
It for = 1500 0

for an energy segnal power will be the equal to tero. The energy segnal should a house lintle renergy. So the signal with power 200 and finite energy is energy signal.

FEINCHAL REE NARWINA GURÜ GOLLEGE OF ENGINEERING A TECHNOLOGY PATTANUR, KANNUR

Spreedy of them " 6 u(t-3) , t=3 , eright shift u(++5) t = -5, lift shift (2+38+2)2. F(s) = (8+1)(1+3) (5) TE (10) 3 TE ST (5) a(t-3) + a(t+5) (1+2) [ 25+25 F 2] 2 +1. = (1)1 +1 (2+3)(1+3) 2<-5 covered a colorer bonzer 1811 pe per colorer to some the energy soqual should where the signal coils thouse of home SREE NARAY NA GURU COLLEGE OF ENGINEERING & TECHNOLOGY PAYYANUR, KANNUR 566





(5) Ans -> 8.

(4-00)
(4-00)

equal to gene

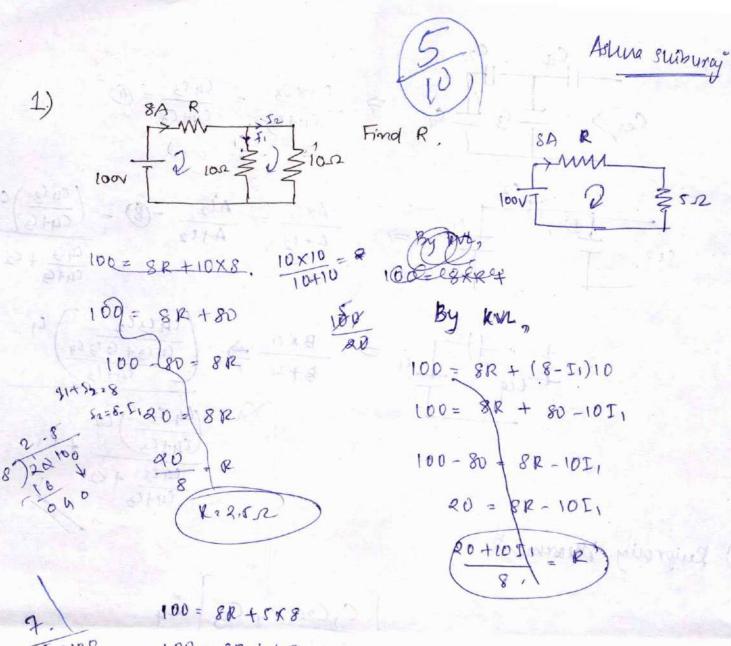
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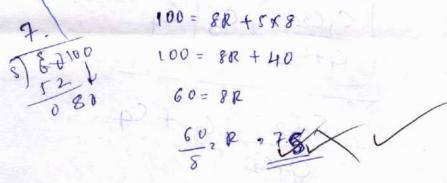
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PATYAJUR KALMUR T. J. 891, 1...

56





(3) b-n+1

Two capacitors in parallel.

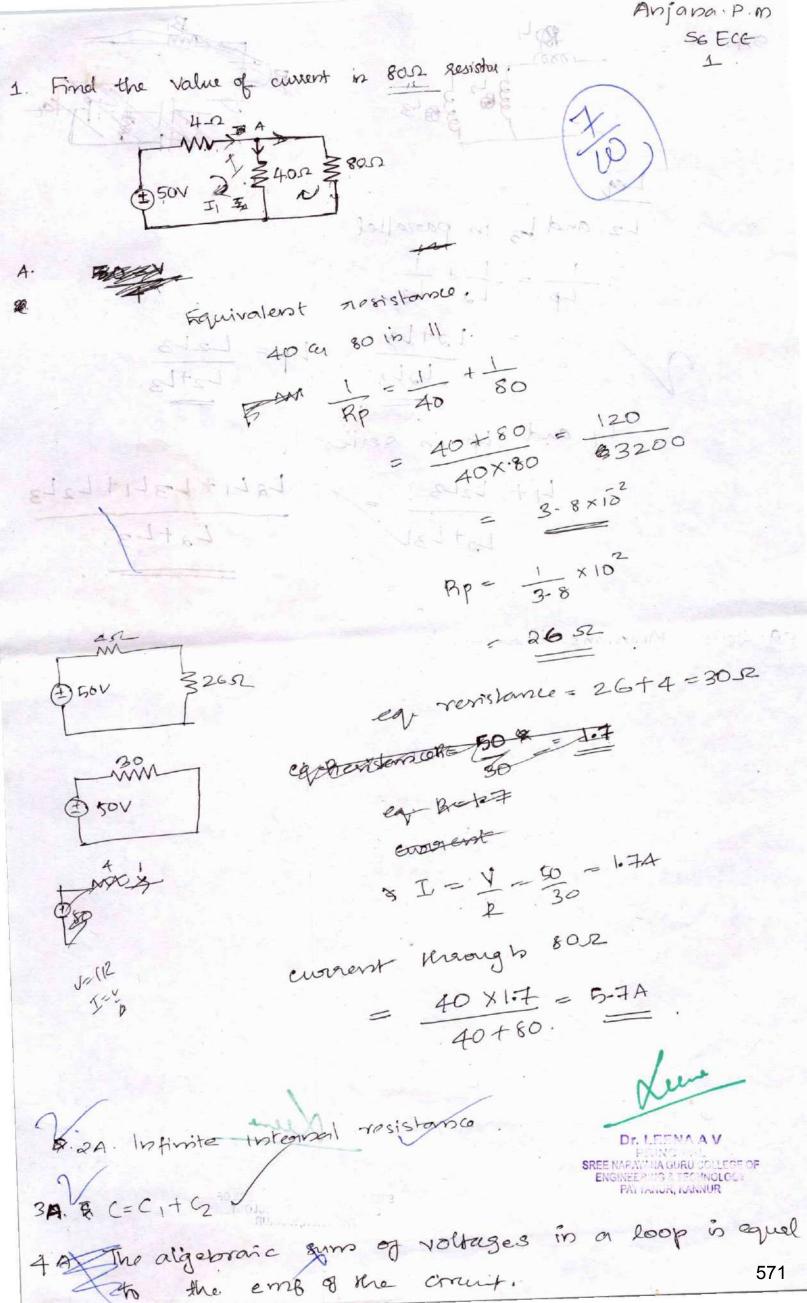
6  $\frac{1}{c_1} + \frac{1}{c_2} = \frac{c_4 \times c_2}{c_1 + c_2} \times \frac{1}{c_2}$ 

8) lithirchoffs woment law is defined as the net current as he node is equal to a and the current entering into the his mode is the and current cornery out of the rode is the and current cornery out of the rode is the first of the first of

Reciprocity Me orem to

letterny or micogo our

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Lz and Lz in panallel - Lp = - L2 + - L3 = 12+13 1213 L, and Lp in series - LI+ L2L3 La L1 + L3 L1 + L2 L3 Lat Lat LatL3. 60. State Millmans theorem. & Majorial po 80 0 40 XIII = 5.7A

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50 cmp shoredoff NA 572

Name - Soyooj K ROLLIO - 7

 $= AB((C+\overline{c})(0+\overline{0}) + AC(B+\overline{B})(0+\overline{0}) + C(A+\overline{A})(B+\overline{B})(0+\overline{0}) + AB((0+\overline{0}))$ 

 $= AB(CO + C\bar{\delta} + \bar{C}O + \bar{C}\bar{\delta}) + AC(BD + B\bar{\delta} + \bar{B}O + \bar{B}\bar{\delta})$   $+ C(A+\bar{A})(BD + B\bar{\delta} + \bar{B}O + \bar{B}\bar{\delta}) + ABCD + ABC\bar{\delta}$ 

-  $ABCD + ABC\bar{D} + ABC\bar{$ 

+ m1s + m1s + m12 + m1s + m14 + m1 + m3 + m2 + m15 + m14

= \(\int m(2,3,6,7,10,11,12,13,14,15)

0a) Perform (1011)2-(0100)2, using 1's compliment

1's compliment form

=)  $(1011)_2 = (0100)_2$ (0100)  $_2 = (1011)_2$ 

9/10/10

Adding

+ 1011

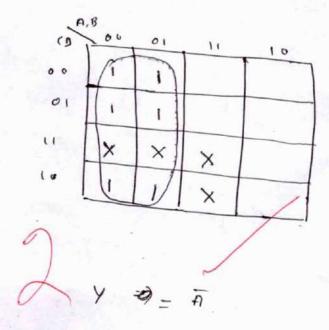
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(0111) = (0111)2

23) Convert binory to docional, Herr-docional, octal form. 1) - (101101.1101)2 \* Binory to decimal (5+0)(0+0) + AC(0+6)(0+0) Integer port (101101), 3 00) DA + (05+05 1100) 89 + C(A-H)(80+65,60+85) + F6CC+ A8C6 = 2x1 + 24x0 + 23x1 + 22x1 + 21x0 + 2°x1 32 + 8 + 4 + 1 32 + 8 + 4 + 1 33 + 8 + 4 + 1 Fractional part (1101)2 2 100 1 2100 1 2100 1 2100 1 2100 = 0.5 + 0.25 + 0 + 0.0625 = 0.5 + 0.25 + 0 + 0.0625(101101.1101)2 = (45.81)10 Binory to Heri Perform (1811) - (P (101.101.1101) 2 => (00101101.1101) =) (2p.p)<sub>16</sub> Octal Binony to Octal (collo1.1101)2=) (10101.110100)2 = (55.64), (ALLO)

O4) F(A,B,GO) = Em (0,1,2,4,5,6), X=(3,7,14,15)

K-mop



$$\frac{10011}{2} = \frac{10011}{00101}$$

=) (00101)<sub>2</sub>

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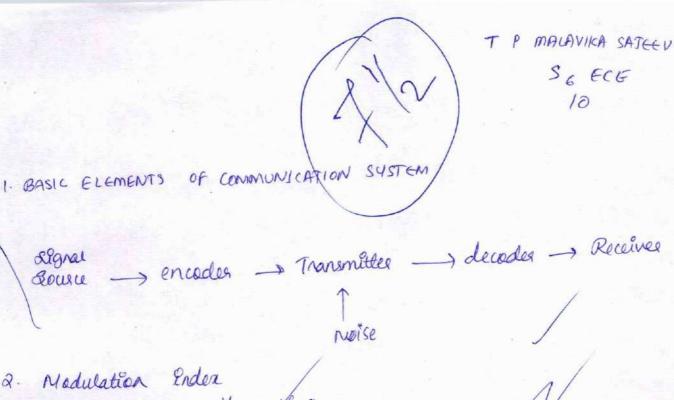
Karlboka.T. 1 Block deagroup of PWM Duty cycle. (2. Balenced modulator: used do generate DSB AM. DSBAM - Double 8° de bond amplitude modulation. DSB FC - Double Sinde band Full carries. Conser. LSB fe USB frequeny. fm-fc. fm+fe 4. OHF romge: 300 MHZ to 3000 14/Hz. 5. Pulse code modulation: Converts analogito degital s/gs 6. Bampling: featm sampling theorem: fs 22fm SREE NAPATITA GURU COLLEGE OF ENGINEEPING A TECHNOLOGY PAY HANUR, KANNUR

8/ps modulation Index as doubled. Space evaves. - 10. 455 KHz-: Austo latoria suo W CRITTAGE CON

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2. Modulation Ender

m = Vmax - Vmin

Vmgh + Vmin

30H3 to 3 HHg/

3. Intermediate frequency = 455×Hz.

4. Modulation is the variations occurring in the carrier dignal with respect to given signal either amplitude, prequency or with respect to given signal either amplitude, prequency or

5. Pt= P((1+ 1/2)

6. Generation of Endlect &M. &

7. Tuned Radio frequency received (7RF).

8- periodulation is the process of -

9 . 15 KHZ/

10. Turing/

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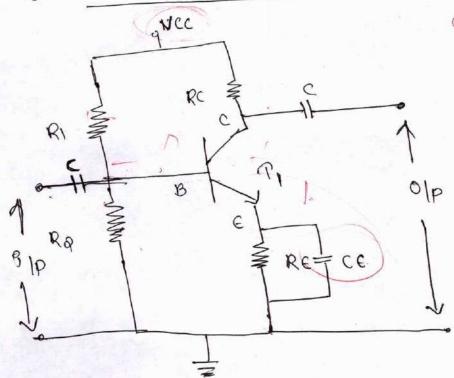
1) Rc coupled amplifier



ARYA-A

ECE

R: NO: 12



a) Barkhawen chiteria

- 1. A 18 = 1
- a. phase shift is 0° or 360°
- 3. It is a tre feedback.

3) differentiator.

Integrated

5)

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Integrator.

(1)

(2)

Differential RC 50.0167

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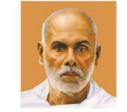
Aswathi.m.V SH ECE Roll. no-4

- D 3e20 X
- 2) Parallel polarisation
- 3) \*\* X
- 4) right hasted rule of ~
- 5) eucho/m² V
- 6) Electric field intensity
- 9) B= an X No = 1/2 = CX
- 8) Perpendicular ~
- 10) 3er 0 ~

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# Sree Narayana Guru College of Engineering & Technology



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

# AY 2018-2019 (PLACEMENT ACTIVITIES, STUDENTS PLACED ON AND OFF CAMPUS, HIGHER STUDIES)



# Sree Narayana Guru College of Engineering & Technology



Est 2003

KOROM, PAYYANUR, KANNUR-670 307

5.2.1 Percentage of outgoing students and students progressing to higher education during the last five years

Year	Name of students enrolling into higher education and contact	Program graduated from	Name of institution joined	Name of program admitted to (applicable for students who progressed to higher
	NIMISHA M K	B.Tech Computer Science Engineering	LBS College of Engineering, Kasargod	M Tech in Computer Science and Information Security
	THULASI BAI A	B.Tech Computer Science Engineering	VIMAL JYOTHI Engineeing,Chemperi	M Tech in Computer Science and Engineering
	SHARIJA P	B.Tech Computer Science Engineering	VIMAL JYOTHI Engineeing,Chemperi	M Tech in Computer Science and Engineering
2018-19	THRISHNA S	B.Tech Electronics and Communication Engineering	VIMAL JYOTHI Engineeing,Chemperi	M.Tech in Communication Engineering and Signals Processing
	ANUSHA RAJ	B.Tech Electronics and Communication Engineering	LBS College of Engineering, Kasargod  VIMAL JYOTHI Engineeing, Chemperi  M. Tech in Computer and Engineering  M. Tech in Communic Engineering and Signipering and	M.Tech inElectronics and Communication Engineering with Specialization in Wireless Technology

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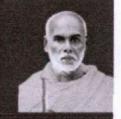
CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

Year	Name of student placed	Program graduated from	Name of the employer with contact details	Pay package at appointment (In INR per annum) (applicable for students who got placement)
	SHABNA MELATH BABU	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	Infiniz Solutions,Ernakulam	3L/annum
	VISHNU UNNIKRISHNAN	B TECH IN ELECTRICAL AND ELECTRONICS ENGINEERING	Byjus learning app	4.5L/annum
	SREEROOP SREEDHAR	BTECH IN CIVIL ENGINEERING	Infiniz Solutions,Ernakulam	2L/annum
2018-19	AYUSH RAJ	BTECH IN CIVIL ENGINEERING	Focus Academy	2L/annum
2010-17	SHIFA AMEER	BTECH IN CIVIL ENGINEERING	Agile Business consultancy	2L/annum
	SRUTHI T K	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	Byjus learning app,Poornam Infovision	4.5L/annum
	ASWATHI SREEKANTH	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	AIR lab	3.6 L/annum
	SHEONA SATHISH	B TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	Eben Telecom, Ernakulam	4L/annum

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## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY



Korom, Chalakkode P.O., Payyanur, Kannur - 670307 Managed by Sree Bhakthi Samvardhini Yogam, Talap, Kannur Affiliated to APJ Abdul Kalam Technological University and Approved by AICTE

# POOLED CAMPUS DRIVE

By Infiniz IT Solutions For 2019 Pass out Students On 03-11-2018 & 04-11-2018



Registration Fees - 100

Note: Interested to participate in this drive please give your name to college placement officer on or before October 12th, 2018

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#### CERTIFICATE OF UNDERTAKING

We understand that we are being given an opportunity through college to attend an pooled campus drive which may lead to selection in Agile Business Consultancy, opening in position are civil engineer, mechanical engineer and we are volunteering to attend the drive for the same,

We further understand, as advised by the college, that we need not to pay any money (apart from registration fees of Rs.100/-) as training charges/deposit etc for any of the activities related to this pooled campus drive or further selection, to anybody. We indemnify the college from any liability arising out of any financial transaction that may be done by us, against this advice, in this regard.

1. Nilufar Fathima - St Civil - Water Stiolist

2. Sahla Aboobuleer - ST Civil

Cha- 10

3. Bahada. V.P. - ST CIVIL La Jolia

4. Fathima Abdalla kunhi- S7 civil

Fa Sholis

5. Shifa Ameer -ST Civil

6 Armal Raj. A - S7 ME

5/10/18 8/10/18

- SAURAV SIVADAS - ST ME

50/10/18

- & SIDHARTHA STIME
- 8 SIDHARTHA STIME
- 9 Sauravib S7 mg
- 10 Fawaz . P.C ST ME
- 11 Vishnurajan. E SIME
- 12 Pagner Bryan STME

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10/10/18

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#### POOLED CAMPUS DRIVE

We are happy to inform you that infiniz it solutions conducting a pooled recruitment drive for 2019 pass out students on November  $3^{rd}$  &  $4^{th}$ , 2018 for

## Agile business consulting, India & Dubai

About the company



#### http://www.agilebss.com/about\_us/

Recruiting for the following Position:

- Civil engineer (B Tech 2019 passout)
- Mechanical engineer (B Tech 2019 passout)

**Eligibility criteria:** candidate must have at least 60% and 5 backlogs students can also attend (no back-logs on completion of course/joining time)

There would be registration fees of Rs 100 per candidate.

Day 1(Round 1)

Aptitude test, Group discussion, Hr interview

Day 2(Round 2)

Group discussion, Hr & technical interview, Results

(Decision of infiniz it solutions will be final in all matters)

**Note**: Interested to participate in this drive Please give your name to college placement officer on or before October 12th, 2018.

HR&PO HRON'S

Date: 04/10/2018

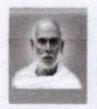
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(PROMOTED BY SREE BHAKTHI SAMVARDHINI YOGAM. KANNUR) CHALAKKODE PO. PAYYANUR, KANNUR-670307. KERALA





# DIYA SYSTEMS CAMPUS RECRUITMENT 2019 SNGCET CAMPUS

Openings in Tech Support Company Website:www.diya.net

Qualification: Final year B. Tech/BCA/BSc IT/BSc CS/MCA/MS (Minimum 50% throughout academics)

Recruitment Date: 28/04/2019

Registration fee applicable @ Rs. 100/-will be collecting on registration desk on same day

Registration closes on 25th march 2019

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#### TRAINING & PLACEMENT CELL



### **DIYA SYSTEMS CAMPUS RECRUITMENT 2019**

#### SNGCET CAMPUS

## **Openings in Tech Support**

Company Website:www.diya.net

Qualification: Final year B.Tech/BCA/BSc IT/BSc CS/MCA/MS (Minimum 50 % throughout academics)

Interview process: English Essay, Aptitude Test & Typing Test, Technical discussion & Decision to offer.

Recruitment Date: 28/04/2019

Mandatory documents to carry for interview process:

- One copy of resume
- 1 passport size photograph
- 10<sup>th</sup> , 12<sup>th</sup> , Degree mark sheets

Registration fee applicable @ Rs.100/- will be collecting on registration desk on same day

Registration link will be available soon. Interested candidates register through link / Contact Placement officer: Anand M E, Mob: 8547504940.

Registration closes on 25<sup>th</sup> march 2019

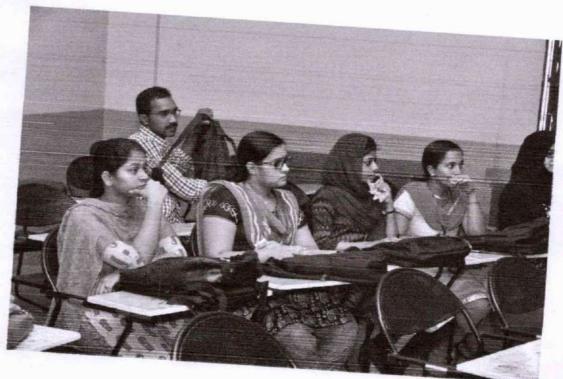
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S/NO	NAME OF THE STUDENT	SIGN
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2.	AKSHAY P	the short
3.	ASWATHI SREEKANTH	Suet
4.	GOPIKA C	gas
5.	HARSHITHA T V	C TO
6.	JINSHA T K	SURA
7.	SHABNA MELATH BABU	34
8.	SHEONA SATHISH	Shipne
9.	SRUTHI T K	GOILLETT .
10.	ABHIJITH PHALGUNAN	Stoller
11.	ARJUN M PURUSHOTHAMAN	CARROL
12.	ASHOK R	200
13.	ASWATHI M	Agnothy.
14.	ATHUL S KUMAR	
15.	C V NAVAS NAZAR	1 dans
16.	DHANUSHA P K	Drawtill
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28.	SHIFA NOURIN	Shirt
29.	SIBIN PRASAD	3100
30.	SIDHARTH S BABU	Marin Comment
31.	SREEROOP SREEDHAR	Jacob Con D
32.	SRUTHI VALIYA PURAYIL	Carry
33.		Auno
34.	AKSHAY M NAMBIAR	(Rate
35.		Anaghat.
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39.		Jack
	NITHIN M	Verin
41.	ROHIT V K	B.A

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SREE NARAYANA GURU CC: LEGE OF
ENGINEERING & TECHNOLOGY
PAYYANUR, KANNUR



# SREE NARAYANA GURU COLLEGE OF ENGINEERING &TECHNOLOGY

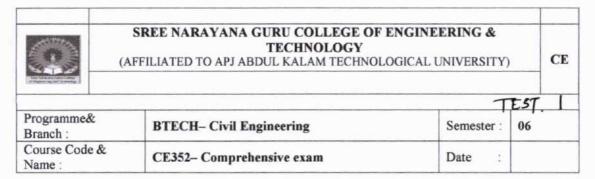
DEPARMENT OF CIVIL ENGINEERING STUDENTS LIST 2016-2020

SL NO	REGISTER NUMBER	NAME
1	SNC16CE001	ABIN DAMODAR
2	SNC16CE002	ADARSH B NAIR
3	SNC16CE003	AKHIL SURENDRAN
4	SNC16CE004	AMRITHA P
5	SNC16CE005	ANASWARA HAREENDRAN
6	SNC16CE006	ANGAJA PRAKASH
7	SNC16CE007	ANJALI V
8	SNC16CE008	ANOJA M
9	SNC16CE009	ARJUN CHANDRAN
10	SNC16CE010	ARJUN M V
11	SNC16CE011	ASHIK K V
12	SNC16CE012	ASHIQ A K
13	SNC16CE013	DRISHYA K P
14	SNC16CE014	FATHIMA ABDUL KAREEM
15	SNC16CE015	JITHIN KUMAR KP
16	SNC16CE016	KEERTHANA UTHAMAN
17	SNC16CE017	K NISHANA
18	SNC16CE018	KRISHNA K
19	SNC16CE019	KRISHNAVENI K
20	SNC16CE020	MIRSHAD E M
21	SNC16CE021	MUHAMMED SHAZ P
22	SNC16CE022	NADA NAZAR OVINAKATH
23	SNC16CE023	NANMA JAYARAJ
24	SNC16CE024	NASHATH JALEEK
25	SNC16CE025	NAYANA RAGHUNATH
26	SNC16CE026	NEERAJA S
27	SNC16CE027	NIKESH K
28	SNC16CE028	REENA K
29	SNC16CE029	SREENATH PRAKASH C
30	SNC16CE030	SREEPARVATHI S
31	SNC16CE031	SUHARIRA PONNA VALAPPIL
32	SNC16CE032	SWANAM C
33	SNC16CE033	THEJAS P K

Dr. LEENA AV

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Maximum Marks:10

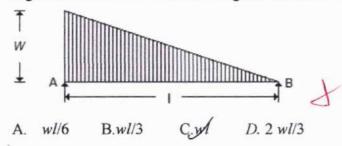
Duration: 15 Minutes

1. The section modulus of a circular section about an axis through its C.G., is

A.  $\pi d^2/4$  B.  $\pi d^2/16$  C.  $\pi d^3/16$  D/ $\pi d^3/32$ 

4

2. A simply supported beam with a gradually varying load from zero at B and w per unit length at A is shown in the below figure. The shear force at B is equal to



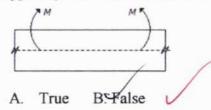
3. The compression test is carried on \_\_\_\_\_ materials

A. Ductile B brittle C malleable D plastic

4. The modulus of elasticity for mild steel is approximately equal to

A. 10 kN/mm<sup>2</sup>B. 80 kN/mm<sup>2</sup>C. 100 kN/mm<sup>2</sup>D. 210 kN/mm<sup>2</sup>

5. A rectangular beam subjected to a bending moment is shown in the below figure. The upper layer of the beam will be in tension.



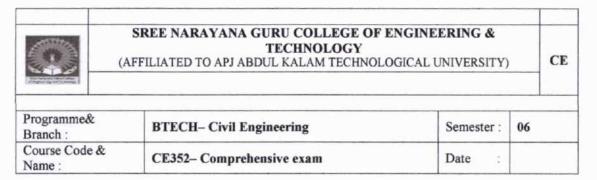
6. Critical depth (h) of a channel, is

A. 
$$h = \frac{v^2}{a}$$

B. 
$$h = \sqrt{\frac{g}{2g}}$$

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Maximum Marks:10

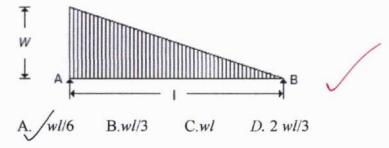
Duration: 15 Minutes

1. The section modulus of a circular section about an axis through its C.G., is

A.  $\pi d^2/4$  B.  $\pi d^2/16$  C.  $\pi d^3/16$  D.  $\pi d^3/32$ 



2. A simply supported beam with a gradually varying load from zero at B and w per unit length at A is shown in the below figure. The shear force at B is equal to



The compression test is carried on materials.

A. Ductile B. brittle C. malleable

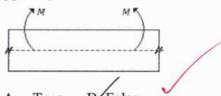
D. plastic \

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5. A rectangular beam subjected to a bending moment is shown in the below figure. The upper layer of the beam will be in tension.



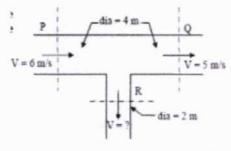
A. True

6. Critical depth (h) of a channel, is



B. 
$$h = \frac{v^2}{2g}$$

- 7. The side slope of Cipolletti weir is generally kept
- A. A to 4 B. 1 to 3 C. 1 to 2 D.1 to 5
- 8. The dynamic viscosity of a fluid is 0.139 kgf-sec/. If the specific gravity of fluid is 0.95 its kinematic viscosity is
  - A. 0.1463
- B. 0.001435
- C. 0.000146 D. 0.5
- 9. The circular water pipes shown in the sketch are flowing full. The velocity of flow (in m/s) in the branch pipe "R" is



- A. 3

B. 4

C. 5



- 10. A 2 km long pipe of 0.2 m diameter connects two reservoirs. The difference between water levels in the reservoirs is 8 m. The DarcyWeisbach friction factor of the pipe is 0.04. Accounting for frictional, entry and exit losses, the velocity in the pipe (in m/s) is:
- A.0.63
- B. 0.35
- D. 1.25



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY)

CE

Programme& Branch:	BTECH- Civil Engineering	Semester :	06
Course Code & Name :	CE352- Comprehensive exam	Date :	

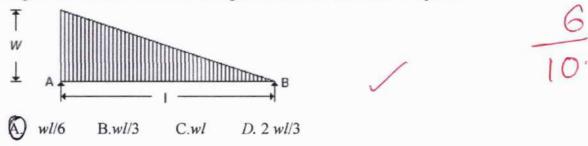
Maximum Marks:10

Duration: 15 Minutes

1. The section modulus of a circular section about an axis through its C.G. is

A.  $\pi d^2/4$  B.  $\pi d^2/16$  C.  $\pi d^3/16$  D  $\pi d^3/32$ 

2. A simply supported beam with a gradually varying load from zero at B and w per unit length at A is shown in the below figure. The shear force at B is equal to



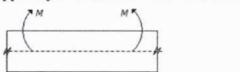
The compression test is carried on \_\_\_\_\_ materials.

A. Ductile Bbrittle C. malleable D. plastic

4. The modulus of elasticity for mild steel is approximately equal to

A. 10 kN/mm<sup>2</sup>B. 80 kN/mm<sup>2</sup>C. 100 kN/mm<sup>2</sup>(D.)210 kN/mm<sup>2</sup>

5. A rectangular beam subjected to a bending moment is shown in the below figure. The upper layer of the beam will be in tension.



A. True (B) False

6. Critical depth (h) of a channel, is



 $\hat{B}$ .  $h = \frac{v^2}{2a}$ 



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C. 
$$h = \frac{v}{2g}$$

D. 
$$h = \frac{v}{g}$$

7. The side slope of Cipolletti weir is generally kept

A. 1 to 4 B. 1 to 3

C. 1 to 2

D.1 to 5



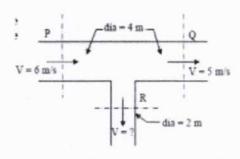
8. The dynamic viscosity of a fluid is 0.139 kgf-sec/. If the specific gravity of fluid is 0.95 its kinematic viscosity is

A. 0.1463

B. 0.001435

C. 0.000146 D. 0.5

9. The circular water pipes shown in the sketch are flowing full. The velocity of flow (in m/s) in the branch pipe "R" is



A. 3 B. 4 C. 5

D. 6

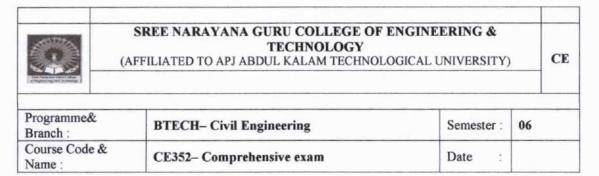
10. A 2 km long pipe of 0.2 m diameter connects two reservoirs. The difference between water levels in the reservoirs is 8 m. The DarcyWeisbach friction factor of the pipe is 0.04. Accounting for frictional, entry and exit losses, the velocity in the pipe (in m/s) is:

A.0.63

B. 0.35

C. 2.52

D. 1.25



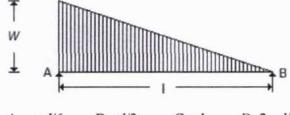
Maximum Marks:10

Duration: 15 Minutes

- 1. The section modulus of a circular section about an axis through its C.G., is
- A.  $\pi d^2/4$  B.  $\pi d^2/16$  C.  $\pi d^3/16$  D)  $\pi d^3/32$



2. A simply supported beam with a gradually varying load from zero at B and w per unit length at A is shown in the below figure. The shear force at B is equal to



- A. wl/6
- B.wl/3
- C.wl
- D. 2 wl/3
- The compression test is carried on
- A. Ductile B brittle
- C. malleable
- D. plastic
- 4. The modulus of elasticity for mild steel is approximately equal to
- A. 10 kN/mm<sup>2</sup>B. 80 kN/mm<sup>2</sup>C. 100 kN/mm<sup>2</sup>O 210 kN/mm<sup>2</sup>
- 5. A rectangular beam subjected to a bending moment is shown in the below figure. The upper layer of the beam will be in tension.



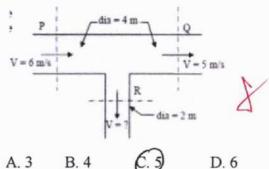
- A. True
- (B) False
- 6. Critical depth (h) of a channel, is

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- 7. The side slope of Cipolletti weir is generally kept
- A. 1 to 4 1 to 3 C. 1 to 2 D.1 to 5

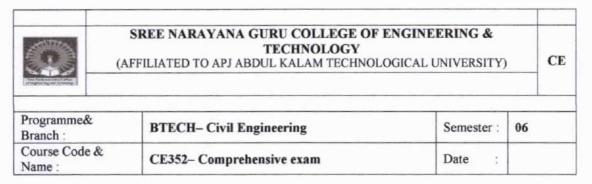


- 8. The dynamic viscosity of a fluid is 0.139 kgf-sec/. If the specific gravity of fluid is 0.95 its kinematic viscosity is
  - A. 0.1463
- B)0.001435
- C. 0.000146 D. 0.5
- 9. The circular water pipes shown in the sketch are flowing full. The velocity of flow (in m/s) in the branch pipe "R" is



- A. 3

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- **(D)**0.63
- B. 0.35
- C. 2.52
- D. 1.25



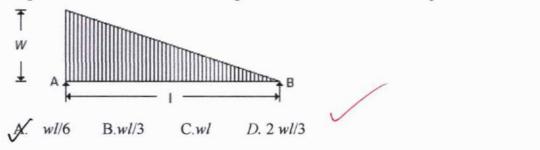
Maximum Marks:10

Duration: 15 Minutes

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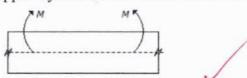
3. The compression test is carried on \_\_\_\_\_ materials.

A. Ductile B brittle C. malleable D. plastic

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A. 10 kN/mm<sup>2</sup>B. 80 kN/mm<sup>2</sup>C. 100 kN/mm<sup>2</sup>D 210 kN/mm<sup>2</sup>

5. A rectangular beam subjected to a bending moment is shown in the below figure. The upper layer of the beam will be in tension.



A. True D. False

6. Critical depth (h) of a channel, is

A. 
$$h = \frac{v^2}{g}$$

$$h = \frac{v^2}{2g}$$



Dr. LEENA AV

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ENGINEER 13 & TECHNOLOGY
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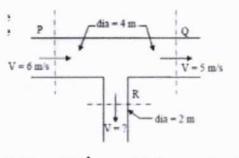
- C.  $h = \frac{v}{2g}$
- D.  $h = \frac{v}{g}$
- 7. The side slope of Cipolletti weir is generally kept

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A.0/63

B. 0.35

C. 2.52

D. 1.25

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## **Experiments Completed**

Laboratory (1): MICROCONTROLLER LAG	Code: .	EC334
Class: IIIrd Year VIth Semester	EŒ	Branch

20-5

<b>Duration Details</b>	End of 4 <sup>th</sup> week	End of 8 <sup>th</sup> week	End of 12 <sup>th</sup> week	End of Semester
% of Portion covered	Two experiment	8 experiments Completed	10 experiments	Allegarunand
Signature of Staff	L. 2.	23/3/19	<u> वित्रापीय</u>	الماقاه
Signature of HOD	Janaman	Jane mmm	Fundumm 4714115	Zomanin
Signature of Auditor	13(2)0			1415/15

## **Experiments Completed**

Laboratory (2): Comprehensive Examination.	Code: EC352
Class: W Year V Semester E	Branch

Duration Details	End of 4 <sup>th</sup> week	End of 8th week	End of 12 <sup>th</sup> week	End of Semester
% of Portion covered	one viva sission	Two mock tests Completed	One viva session completed	External viva exam completed
Signature of Staff	22/2/19	23/3/19	27/4/19	145 119
Signature of HOD	January 221 2715	Zamenum.	Zmommy	Immound.
Signature of Auditor		3/47	22/14/15	1415115

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PAYYANUR, KANNUR

## Lab Attendance and Assessment

Laboratory (2): Comphehenture Exam. Code: EC352. Class: The Year

			Month	2	2	2	2	1	3	3	13	4	4
SI.No	Reg. No.	Name	Date	4	5	8		31	15	122		-	12
	SNC16		Session	6	6	5,6	55	5,0	5,	15,0	5,2	5	6
1.	ECOOL	Afreha K	(F)	1	1	1	1	1	1	1	1	1	1
2.	EC002	Anagha P.	(F)	1	1	1	1	1	1	1	/	/	1
3.	EC003	Anjali Babu K	(F)	1	1	1	1	1	1	1	1	1	1
4.	ECOOL	Archarree Vijayakar D	(F)	1	1.	1	1	1	1	1	1	1	1
j.	ECOUS	Asymathi K.T.	(F)	1	1	1	1	1	1	1	1	1	1
6.	EC006	Athena Anil	(F)	1	1	1	1	1	1	1	1	1	1
7.	ECOOT	Athulya.K.C.	(F)	1	1	1	1	1	1	1	1	1	1
В.	ECOOR	Harsh & Shankar	(F)	1	1	1	1	1	1	1	1	1	1
9.	FC009	K.P. Anuhrung	(F)	1	1	1	1	1	1	1	1	1	1
10.	ECOLO	Naveina M.	(F)	1	1	1	1	1	1	1	1	1	1
11.	ECOIL	Navya Bhaskaran.	(F)	1	1	1	A	1	1	1	1	1	1
12.	ECU12	Sove Hari		1	1	1	1	1	1	1	1		
13.	EC013	Sudeen K.S.		1	1	1	A	1	1	1	A	1	1
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15.	EC015	Virmittie Pramied	(F)	1	1	1	1	1	1	1	1	1	1
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IIth Semester ECE Branch

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SI.No	16	16	16	26	26	29	3	3	7	8
	1	4	6	5	6	5	5	6	3	1
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5.	1	1	1	1	1	1	1	1	/	1
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11.	1	1	1	1	1	17	1	1	1	1
12.	A	1	1	1	1	1	1	1	V	1
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30.		1	1	1	1	1	1		

Ken

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PAYYANUR, KANNUR



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY PAYYANUR



(PROMOTED BY SREE BHAKTHI SAMVARDHINI YOGAM, KANNUR) CHALAKODE P.O., PAYYANUR, KANNUR-670307, KERALA

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### STUDENT LIST

#### (2016-2020) BATCH

Sl. No.	University Reg. No.	Name	
1	SNC16EC001	Afeefa K	
2	SNC16EC002	Anagha P	
3	SNC16EC003	Anjali Babu K	
4	SNC16EC004	Aryasree Vijayraj D	
5	SNC16EC005	Aswathi K T	
6	SNC16EC006	Athena Anil	
7	SNC16EC007	Athulya K C	
8	SNC16EC008	Harsha Sankar	
9	SNC16EC009	K P Anupriya	
10	SNC16EC010	Naveena M	
11	SNC16EC011	Navya Bhaskaran	
12	SNC16EC012	Sreehari	
13	SNC16EC013	Sudeep K S	
14	SNC16EC014	Vipin P V	
15	SNC16EC015	Vismitha Pramod	

HoD ECE

Dr. LEENA AV
PAIN CIPAL
SREE MARAYMA GURU COLLEGE OF
ENGINEER MS & TECHNOLOGY
ENGINEER MS & TECHNOLOGY
PAY YANUR, KANNUR

SNGCMS SNGCET-DATACENTRE



# SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY Promoted by Sree Bhakthi Samvardhini Yogam (Affiliated to KTU, Recognised by AICTE) Cumulative attendance of 2016-2020 EC S6 till 22/5/2019-11:04:57 AM

Subject : Comprehensive Exam (COMP.EXAM)

Register No.	Student Name	Hour Present	Hour Absent	Percentage
SNC16EC001	AFEEFA K	27	3	90
SNC16EC002	ANAGHA P	27	3	90
SNC16EC003	ANJALI BABU K	27	3	90
SNC16EC004	ARYASREE VIJAYARAJ.D	27	3	90
SNC16EC005	ASWATHI K T	27	3	90
SNC16EC006	ATHENA ANIL	27	3	90
SNC16EC007	ATHULYA KC	27	3	90
SNC16EC008	HARSHA SHANKAR	27	3	90
SNC16EC009	KP ANUPRIYA	26	4	86.67
SNC16EC010	NAVEENA.M	27	3	90
SNC16EC011	NAVYA BHASKARAN	25	5	83.33
SNC16EC012	SREE HARI	25	5	83.33
SNC16EC013	SUDEEP K S	23	7	76.67
SNC16EC014	VIPIN P V	27	3	90
SNC16EC015	VISMITHA PRAMOD	26	4	86.67

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#### SREE NARAYANA GURU COLLEGE OF ENGINEERING ≠ TECHNOLOGY Promoted by Sree Bhakthi Samvardhini Yogam

(Affiliated to KTU, Recognised by AICTE)

Cumulative attendance of 2016-2020 EC S6 till 28/2/2019-11:17:03 AM

Subject : Comprehensive Exam (COMP.EXAM)

Register No.	Student Name	Hour Present	Hour Absent	Percentage
SNC16EC001	AFEEFA K	. 8	0	. 100
SNC16EC002	ANAGHA P	8	. 0	100 •
SNC16EC003	ANJALI BABU K	8	0	100
SNC16EC004	ARYASREE VIJAYARAJ.D	8	0	100
SNC16EC005	ASWATHI K T	. 8	0	100
SNC16EC006	ATHENA ANIL	8	0	100
SNC16EC007	ATHULYA KC	8	0	100
SNC16EC008	HARSHA SHANKAR	8	0	100
SNC16EC009	KP ANUPRIYA	8	0	100
SNC16EC010	NAVEENA.M	8	0	100
SNC16EC011	NAVYA BHASKARAN	6	2	75
SNC16EC012	SREE HARI	8	0	100
'NC16EC013	SUDEEP K S	6	2	75
SNC16EC014	VIPIN P V	8	0	100
SNC16EC015	VISMITHA PRAMOD	8	0	100

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Dr. LEENA A V
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# SREE NARAYANA GURU COLLEGE OF ENGINEERING F TECHNOLOGY Promoted by Sree Bhakthi Samvardhini Yogam

(Affiliated to KTU, Recognised by AICTE)

Cumulative attendance of 2016-2020 EC S6 till 10/4/2019-10:42:40 AM

Subject : Comprehensive Exam (COMP.EXAM)

Register No.	Student Name	Hour Present	Hour Absent	Percentage
SNC16EC001	AFEEFA K	14	0	100
SNC16EC002	ANAGHA P	14	0	100
SNC16EC003	ANJALI BABU K	14	0	100
SNC16EC004	ARYASREE VIJAYARAJ.D	14	0	100
SNC16EC005	ASWATHI K T	14	0	100
SNC16EC006	ATHENA ANIL	• 14	0	100
SNC16EC007	ATHULYA KC	14	0	100
SNC16EC008	HARSHA SHANKAR	14	0	100
SNC16EC009	KP ANUPRIYA	14	0	100
SNC16EC010	NAVEENA.M	14	0	100
SNC16EC011	NAVYA BHASKARAN	12	2	85.71
SNC16EC012	SREE HARI	14	0	100
SNC16EC013	SUDEEP K S	10	4	71.43
SNC16EC014	VIPIN P V	14	0	100
SNC16EC015	VISMITHA PRAMOD	14	0	100

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# SREE NARAYANA GURU COLLEGE OF ENGINEERING F TECHNOLOGY Promoted by Sree Bhakthi Samvardhini Yogam (Affiliated to KTU, Recognised by AICTE)

6

Student	batch	list f	or the	class 2016	2020	BTECH	EC S6

S.No.	Register No.	Student_Name	Roll No.
1	SNC16EC001	AFEEFA K	1
2	SNC16EC002	ANAGHA P	2
3	SNC16EC003	ANJALI BABU K	3
4	SNC16EC004	ARYASREE VIJAYARAJ.D	4
5	SNC16EC005	ASWATHI K T	5
6	SNC16EC006	ATHENA ANIL	6
7	SNC16EC007	ATHULYA KC	7
8	SNC16EC008	HARSHA SHANKAR	8
9	SNC16EC009	KP ANUPRIYA	9
10	SNC16EC010	NAVEENA.M	10
11.	SNC16EC011	NAVYA BHASKARAN	11
12	SNC16EC012	SREE HARI	12
13	SNC16EC013	SUDEEP K S	13
14	SNC16EC014	VIPIN P V	14
15	SNC16EC015	VISMITHA PRAMOD	15

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HOD (ECE)

Dr. LEENA AV

PHIN CIPAL

SREE NAPAYANA GURU COLLEGE OF
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PAYTANUR, KANNUR



# SREE ŅARAYANA GURU COLLEGE OF ENGINEERING PAYYANUR TECHNOLOGY

ECE

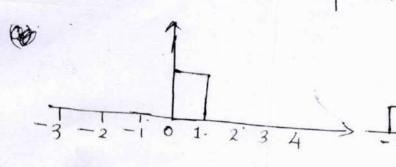
	COMPREHENSIVE EXAMINATION VIV	A QUESTIONS	
Programme & Branch	BTech – Electronics and Communication Engineering	Semester	06
Course Code & Name	EC 352 – Comprehensive Examination	Date	28/01/19

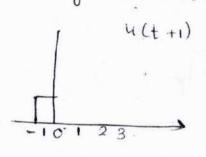
- 1. What are AM demodulation techniques?
- 2. What is the maximum transmission efficiency of an AM signal?
- 3. What are requirements of synchronous detection of AM signal?
- 4. What are limitations of Frequency discrimination method?
- 5. What is Automatic gain control?
- 6. What are examples of low level modulation?
- 7. What are advantages of using an RF amplifier?
- 8. What is the standard value for Intermediate frequency (IF) in AM receivers?
- 9. What are the functions of radio receiver?
- 10. What is frequency deviation in FM?
- 11. What is the modulation index of FM?
- 12. What is associated with random motion due to thermal agitation in the movement
  - of holes and electrons in a silicon crystal?
- 13. What is another name for a pn crystal?
- 14. What is the barrier potential of germanium at 25°C?
- 15. What is the other name of Esaki diode?
- 16. What is Crossover distortion?
- 17. What is the main advantage of FM over AM?
- 18. What is Race around condition?
- 19. What is difference between combinational and sequential circuits?
- 20. How many flipflops are required to implement Mod 7 counter?

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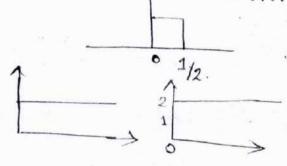
() Sketch the sli x(+)= u(++1)+2u(+)

(2) find even and add component of x(t)=1++++2.







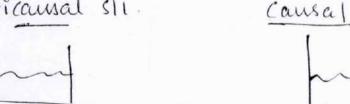


$$x(t) = 1 + t + t^{2}$$

$$= 1 + \left(\frac{t+2}{2}\right) + \left(\frac{t+2}{2}\right)^{2}$$

$$= 1 + \frac{t+2}{2} + \frac{t+2}{2}$$

Anticausal SII.



slm defind only for

slu defined only too the yalue

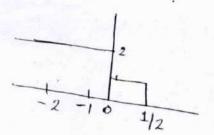
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SREENAT LOS TECHNOS CHECE OF
ENCIN

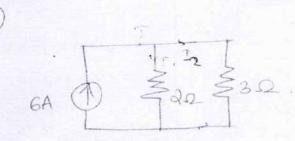
Aryastee Vyaystej D . Skelch the signal NE(E) = u (++1) + 2.u(+) Rollro.4 even & odd as imponents of all) = 1++++2  $-\alpha(1) = 1 - 1 - 1^2$ Cluen component = alt) + sa(-t) . odd component . = ENGINE LUIG & TECHNOLOGY PAY YANUR KANNUR

- 3) & dy'ine causal & anticausal s/m.
- 4) Investible & Non investible
- 3) causal SIm: A system which said to be causal sim which appeared present pleasent present upon the present and past of Not dependence upon future values of i/p

Anticaural Sm. . A system which said to be Anticausal Slm tuboides as dependence upon the present, past the present of dependence upon the present, distinct of signal from distinct if ste.

past and future values & 1/pts.

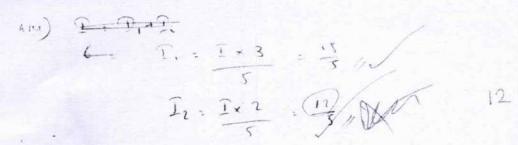
4) Inwertible SIm. A sIm a said to be inwertible SIm when the i/p can be recovered from its ofp. A sIm is said to be noninvertible & which & which & do not can't recovered from its ypts



Nymin PV holling 14

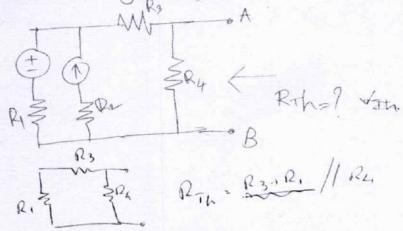
8 10 22/21A

Find current in 202430 residor



a) Theresini Theorem

network consist of more than one convent source voltage sources and impedance Then the circul can be convented into a single equivalent arise confin of one equivalent voltage in presents with impedance.



NAN	1E: Aryo	usall V	ijayaraj D	ROLI	L NO.	04
1	bV	21	dV	41	a	V
2	a	22	b. X	42	a	X
3	6X	23	. c V.	43	b	/
4	a V	24	9 /	44	9	1
5	c×	25	CV	45	d.	/
6	CV	26	d X	46	d	
7	ax	27	C 7	47	Q.	X
8	d X	28	d X	48	a :	V
9	a x	29	CX	49	a	V
10	dx	30	CV	50	b.	X
11	9	31	$a \times$			
12	cx	32	biv			,
13	dX	33	cx			
14	bV	34	bx			
15	by	35	· a <			
16	a X	36	b. <			
17	dV	37	b </td <td></td> <td></td> <td></td>			
18	91	38	c×			
19	bx	39	e ax			
20	a	40	CX			

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PAYYANUR, KANNUR

NAM	1E:	VISI	MITHA	PRA	MOD	ROLL	NO.	15
1	В	/	21	D.		41	A	V
2	A	/	22	В	X	42	A	×
3	C	/	23	A	X	43	В	1
4	A	V	24	Α	1	44	Δ	1
5	C	X	25	C		45	D	/
6	B	X	26	D	*	46	C	X
7	A	4	27	c	×	47	A	×
8	13	V	28	C	~	48	B .	X
9	A	X	29	Α	X	49	Α	1
10	B	X	30	C	~	50	В	X
11	A	1	31	B	$\sim$			
12	B	/	32	D.	X			,
13	C	~	33	D.	×			
14	B	/	34	$\mathcal{D}$ .	X			
15	A	X	35	B	X			
16	A	X	36	D	X			
17	D	/	37	A	×			
18	B	X	38	A	*			
19	A	X	39	B	~			
20	A	~	40	В	X			

NAN	1E: A.	swal	hi K.T	ROLL	NO.	5
1	.bV	21	*	41.	d.	X
2	b ×	22	cV	42		X
3	. b ×	23	c✓	43	Ь	V
4	*	24	*	44	a	V
5	X	25	ax	45	a	X
6	cV	26	ax	46	d	V
7	dx	27	c×	47		X
8	X	28	X	48		X
9	$a \times$	29	b <	49	a	V
10		30	X	50		X
11	\	31	×			
12		32	X			
13		33	a V			
14		34	$\times$		A A A A A A A A A A A A A A A A A A A	and the
15		35	b ×			
16	d	36	c×			
17	. X	37	Ь			
18	X	38	X			
19	d X	39	X			
20	*	40	×			

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ENGINEER NA A TECHNOLOGY
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	СО	MPI				MBCK T		ON	
NAN		T	ipin			1	L NO		14
1	a		21	A	7	41	6	×	
2	b	X	22	a	V	42	Ь	*/	
3	d	~	23	Ь	X	43	C	~	
4	a	V	24	C	V	44	C	+	
5	a	/	25	n	X	45	a	V	
6	Ċ		26	0	X	46	a		
7	a	~	27	B	X	47	. d	×	
8	6	V	28	a	$\times$	48	C	.×	
9	a		29	6	bV	49	a		
10	a		30	d	X	50	a		
11		$\checkmark$	31	d	V				
12	Ь	~	32	5	X		hina s		
13	a	/	33	a	$\vee$				
14	d	4	34	Ь	·V				in a little
15	6.	$\leq$	35	C	. ∨				
16	6	1	36	Α	X				
17	C	~	37	C	X				
18	a A	X	38	C	V			•	
19	D	+	39	<u> </u>	V.				
20	D	X	40	b	×				

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3/0

	СО	MPI		SECON NSI\		OCK T	NATI(	ON	
NAN		1		1 BAT	-		L NO.		3
1	a	/	21	D	×	41	a	×	Teater.
2	b	X	22	•	a	42	, Q	×	
3	a	X	23	· b	×	43	d	X.	
4	d	×	24	A	X	44	Ь	V	
5	a	/	25	C	X	45	d	×	
6	C	/	26	C	X	46	a	~	
7	a	<b>Y</b>	27	C		47	a	X	
8	Ь	/	28	a	X	48	C	X	
9	a	V	29	b	/	49	a	V	
10	oc	/	30	ь		50	b	X	
11	С	1	31	C	×				
12	a	X	32	b	· 4				
13	a	~	33	A	/				
14	d		34	C	×				
15	a	V.	35	d	×				- 18-
16	d	X	36	1	V.				
17	a	X	37	a	*				
18	С	1	38	b	7				
. 19	Α.	4	39	7	X				
20	В	X	40	b	X				

29/3/19

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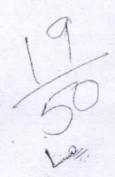
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ENGINEER MARAY FORMOLOGY
PAYYANUR, KANNUR

	CC	MPI		NSIVE F		NATION	
NAN				'A KL		L NO.	07
1	a	/	21	BV	41	cV	
2	c	X	22	d ×	42	b	
3	d	~	23	d	43	dx	
4	d	X	24	c V	44	b <	
. 5	d.	X	25	C . x	45	CX	
6	Ь	X	26	CX	46	c ×	
7	a	~	27	DX	47	ax	
8	Ь		28	B×	48	c ×	
9	6	X	29	CX	49	av	
10	a		30	a x	50	bx	
11	c	V	31	a x			
12	a	X	32	C ×			
13	b	*	33	by			
· 14	d.		34	d .×			
15	C	X	35	a ×			
16	d	X	36	<b>b</b> ×			
17	B	X	37	c×			
18	B	X	38	c V			
19	A	*	39	b +			
20	D	X	40	a +			

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FRANCIBAL
SREE NAR WINA GURU COLLEGE OF •
ENGINEERING & TECHNOLOGY
FAYYANUR, KANNUR

IAI	ME:	And	gha	P		ROL	L NO.		2
1	ь	~	21	di	1	41	b .		X
2	d	×	22	Ь	X	42			X
3	ь	X	23	a	X	43	ъ		1
4	C	×	24	b	X	44	a		V
5	C	X	25	C		45	d	4	·V
6	C	~	26	d)	X	46	#6 d		1
7	b		27	a	X	47	a		X
8	d	X	28	C	/	. 48			X
9	a	X	29	d	· ×	49	a		V
10	b	X	30	a	X	50			×
11	a		31	d	×				
12	Ъ		32	. /	X	10.25			
13	40		33	d	×				
14	d	X	34		X				
15	a	X	35	a	V	. = -		*	
16	d		36		×				
17	Ь	X	37	d	×				
18	a.	V	38	C	. X				
19	C		39	ь	V				
20	d	X	40	C	X	,	1		
					Di	Xe	LAV.		

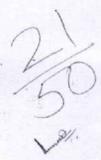
VAN	1E:	AF	EEFA	·K	ROL	L NO.	01
1	by	/	21	d /	41	a a	V
2	C	X	22	by	42	a	X
3	Ь	X	23	c	43	ь	V
4	p.	X	24	a V	44	a	1
5	C	X	25	OC/	45	Ь	X
6	C	V	26	cV	46	d.	
7	d	X	27	c×	47	a	X
8	b	V	28	ax	48	a	V
9	C	X	29	ax	49	a	1
10	d	X	30	bX	50	d	X
11	d	X.	31	dX			
12	b	1	32	b /	1000		
13	d.	Χ	33	a . V		TO STORY OF THE	V and
14	d	X	34	bX			
15	a	X	35	bex			
16	a	X	36	a x			
17	C	X	37	bV			
18	d	X	38	dx			
19	a	X	39	a X			
20	a	/	40	c×			



NAI	ME:	Sic	ehori			ROL	L NO.	12
1	8	B/	21	C	X	41	В.	X
2	В		22	C	/	42	B	1
3	B	X	23	D	X	43	9	-
4	B	X	24	0	X	44	A	V
5	A	/	25	C	/	45	0 .	V
6	C	$\checkmark$	26	A	X	46	C	X
7	B	/	27	C	X	47	# A	X
8	c: -	X	28	A	$\cdot \times$	48	В	·X
9	-	X	29	B	/	49	BB	X
10	3	*	30	c	V.	50		
11	00	X	31	C	X			
12	b	/	32	A	X			
13	c	V	33	c	X			
14	0	X	34	0	X			
15	8	/	35	c	X			
16	0	X	36	c	X			
17	C.	X	37	0	. X		0.2.2	
18	A	/	38	4	X			
19	0	X	39	8	V		1	
20	0	X	40	A	X		1	

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NAN	NE:	KP,	ANUP	RIVA	ROLI	NO.	09
1	(b)	)V	21	(d)~	41	(a)	V
2	(d)	X	22	COV	42	(b)	V
3	(6)	X	23	(c) V	43	(b)	\/
4	(0)	X	24	(d) X	44	- (a) ·	V
5	(a)	V	25	(0)V	45	(d)	V
6	(p)	X	26	(4) X	46	(d)	V
7	(d)	X	27	(c) X	47	(9)	X
8	(c)	X	28	(a) X	48	(d)	X
9	(b)	X	29	(g) X	49	(a)	1
10	(c)	X	30	(a) X	50	(b)	X
11	(a)	V	31	(a) X			
12	(3)	/	32	(c). X			
13	(c)	V.	33	(a) (/	· Ris-ly		
14	(a)	X	34	(b) X	et o		
15	(b)	V	35	(a) V			
16	(4)	/	36	(a) X			
17	(a)	V .	37	(6) X	1		
18	(b)	X	38	(OX	- '- '- '-		
19	(b)	X	39	(a) X			
20	(b)	X	40	(c) X			-



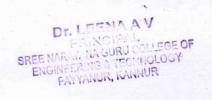
Dr. LEEMA AV
PALNOS AU

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ENGINEER VIA A TECHNOLOGY
PATYANUR, KANNUR

NAM	1E:	Ath	rhy a	KC		ROL	L NO.	07
1	a	X	21	C	X	41	Ь	X
2	a	~	22	a	X	42	b	~
3	C		23	0	V	43	(b) water	V
4	d	X	24	Ь	×	44	a	1
5	d	X	25	Ь	X	45	b	X
6	. b	X	26	d	X	46	d	V
7	Ь	<u>\</u>	27	C.	X	47	Ь	
8	C	X	28	C	+	48	d	×
9	C	X	29	a	X	49	a.	/
10	d	X	30	b	X	50	a	
11	a		31	Ь	V			
12	d	X	32	Ь	. ~			
13	6	X	33	d	X			
14	d	X	34		X			
15	Ь	~	35	b	X			
16	Ь	X	36	a.	X			
17	d	V.	37	Ь	/		7	
18	b	X	38	C	$\times$			
19	Ь	X	39	a.	X			
20	a	$\checkmark$	40	C	X	4 54		
						X	· ···	

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NAN	1E:	Nan	velna	M	ROL	L NO.	10 .
1	· b	/	21	\ /	41	a	
2	·c	X	22	$\times$	42	b	
3	d	X	23		43	b	/
4		X	24	$b \times$	44	a.	
5	<i>b</i>	X	25	X	45	a	X
6	b	X	26		46	d	
7	d	X	. 27	c×	47	Ċ	X
8		1	28	X	48	Ь	X
9	a.	×.	29	dX	49	a.	1
10	1		30	×.	50	Ь	X
11			31	b /			
12	1		32	X			
13	C		33	aV			
14	1		34	X			
15		/	35	a. /		14.00	
16			36	dX		100	
17	1		37	6			
18	17		38	X			
19		1	39	a. X			
20	b>	۷ )	40	×	1.		



NAN	1E:	ANI	ALI	BABU	ROL	L NO.	3
1	ь	/	21	cx	41	d	X
2	a	/	22	ax	42	c	X
3	b	X	23	a X	43	b	
4	d	X	24	av	44	a	V
5	a	/	25	c V	45	d	/
6	C	/	26	d. X	46	d	. V.
7	a	X	27	dV	47	C	X
8	d	X	28	a ×	48	d	X
9	a	X	29	cx	49	a	V
10	a	/	30	$a \times$	50	b	X
11	a	V	31	c×		Paris	
12	b	/	32	bV			
13	c.	/	33	a V			
14	b	/	34	c </td <td></td> <td></td> <td></td>			
15	a	X	35	bx			
16	di		36	$\alpha \times$			
17	c	X	37	bv		15 13 and 1	
18	d	X	38	c X			
19	a	X	39	bV			
20	a	/	40	CX			

NAM	IE: Su	deep.k	<.5	ROLL	NO.	13
1	* BV	21	c. ×	41	0	X
2	DX	- 22	D X	42	0	X
3	BX	23	$A^-  imes$	43	В	V
4	DX	24	D.X	44	D	X
5	cx	25	C.V	45	D	/
6	B.X	26	BX	46	b	V
7	B	27	c×	47	AA	X
8	A.X	28	A. ×	48	A	V
9	AX	29	8.	49	A	V
10	c×	30	AX	50	В	X
11	AV	31	B. V			
12	cx	32	В.√			
13	D.X	33	AV			
14	PX	34	c.V			
15	AX	35	B. X			
16	CX	36	D. X			
17	CX	37	AX			
18	D. X	38	A DX			
19	BX	39	AX			
20	AV	40	B-X.		,	
					Xeen	
				Dr	LEENAAV	

			E EXAM SEC	
	1	, a	26	a
	2	d ·	27	С
	3	d	28	c
	4	a	29	b
	5	a	30	b
	6	с	31	d
	7	а	32	а
	8	b	33	a
	9	a .	34	b
	10	a	35	c
	11	с	36	d
	12	b	37	d
	13	a	38	c
	14	d	39	a or c
	15	a	40	d
7	16	b	41	С
	17	С	42	b
	18	С	43	c
	19	b	44	b
	20	а .	45	a .
	21	b	46	a
	22	a	47	c
	23	d	48	b
	24	c	49	а
	25	a	50	b

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29/3/19

NAN	ME: H	ansha	2	ROLI	L NO.	8
1	6	21		41	Ь	X
2	dX	22	/	42	Ь	V
3	X	23		43	Ъ.	V
4	X	24	X	44	a.	
5	a.V	25	/.\	45	Ь	X
6	cV	26		46	d	V
7	c X	27		47	d	X
8	X	28	/	48	Ь.	X
9	cx	29	d X	49	a	1
10	X	30	×	50	Ь.	X
11	a V	31	d X			
12	cX	32				
13	X	33	X			
14	bV	34				
15	p. /	35	c. X	E.Fa		
16	PX	36	d X			
17	100	37	d X			
18		38	X			
19		39	cx			
20	/	40	X			

NAM	IE:	ATH	ENA	ANIL	ROLI	L NO.	6
1	ь	V	21	b ×	41	a.	
2	d	X	22	e c V	42	a	X
3	d	X	23	. a X	43	ь	V
4	Ь	X	24	6 X	44	a	-
5	d	X	25	a X	45	d	V
6	6	X	26	a ×	46	d	
7	6		27	cX	47	d	X
8	· (C)	X	28	a >	48	b	X
9	a	X	29	P ^	49	a	
10	٠.	X	30	d .×	50		X
11	a	V	31	c×			
12	C	X	32	d×			
13	ď	X	33	6 X			
14	a	X	34	a X			
15	Ь	1	35	a V			
16	c	X	36	a X			
17	. b	X	37	b			
18	d	X	38	a X			
19	·b	X	39	d · X			
20	d	X	40	a ×			

	COI	MPI	REHEN	ISIVI	E EX	AMIN	NATION	
NAM	1E:	VIS	SMITHA	PRA	MOD	ROLL	NO.	15
1	a	~	21	D	7	41	b×	
2	d	~	22	C	X	42	c ×	
3	d	~	23	8	×	43	c	
4	d	X	24	A	×	44	CX	
5	ė	X	25	A		45	a /	
6	C		26	A		46	. b ×	
7	a		27	C	V	47	C. V	
8	Ъ	/	28	d	*	48	ax	
9	a	~	29	C	X	49	a	
10	a	/	30	b	/	50	8 b x	
11	C		31	d	V			
12	b	/	32	Ь.	7			
13	d	X	33	d	4			
14	d	V	34	<u> </u>	X			
15	a	V	35	C	V			
16	a	X	36	D	V.		•	
17	D	×	37	a	X		*	
18	D	X	38	a	X			
19	A	X	39	d	4			
20	В	*	40	d	V			

	CC	OMP	REHE	NSIVE E	XAM	INATION	
NAN	ΛE:	1)	auya	Bhuskara	, RO	LL NO.	11.
1	b	1	21	D. ×	41	.c.v	
2	d.	1	22	c· X	42	6.	
3	C.	X	23	b. ×	43	b. x	
4	a	/	24	cv	44	b. ~	
5	9	V	25	A.V	45	a.	
6	С		26	BX	46	b·x	
7	a		27	cV	47	do a	
8	b	V	28	d 7	48	@c.	
. 9	q.		29	b V	49	a	
10	9		30	$\alpha \times$	50	av	
11	С	V	31	9 ~			
12	C	1	32	·6 ×			1
13	C	*	33	a V			
14	d		34	a ×			
15	a.	V	35	c			
16	b.	/	36	AX			
17	C	V	37	b. X			
. 18	A.	X	38	d . *			
19	· C.	X	39	D d >	4		
20	D	X	40	b. ×			

10 00 15.

	COI	MPI	REHE	NSIV	E EX	AMI	NATION	١
NAN	<b>1Ε</b> :	Aa	yasre	e Vija	yaray s	ROL	L NO.	4
1	A	a /	21	B	V	41	Ь	7
2	d	/	22	C	X	42	b.	~
3	6	X	23	d	V	43	C	V
. 4	6	04	24	c	./	44	b	
5	a	.√	25	C	X	45	C	X
6	C		26	D	.×	46	a	
7	a	V	27	A	X	47	b	X
8	Ь	/	28	a	X	48	C	·×
9	a	V	29	b	<u> </u>	49	a	
10	a	V	30	a	X	50	а	8
11	C	V	31	d	V			
12	b.	/	32	0	X			
· 13	a.	$\checkmark$	33	d	. ×			
14	d	~	34	b	~			
15	a	V	35	C	/			
16	d	X	36	D				
17	C	~	37	d	X			
18	B	7:	38	a	X			

	COL	MPR	EHE	NSIVÈ E	XAMII	NATION	
NAM	IE:	ATH	1EN A	4 ANIC	ROL	L NO.	6
1	a		21	. b .	41	10 ×	
2	1		22	c ×	42	1 00	
3		+	23	c X	43	ax	
4	ko	1	24	c V	44	6	
5	a	1	25	4 ×	45	b >	
6	C	V	26	b >>	46	a	
7	a	~	27	c	47	a ×	
. 8	ь.	V	28	el.×	48	c ×	
9	ba	V	29	b ~	49	a.V	
10	4	V	30	b ~	50	6 X	
11	C		31	· d ×			
12	lo	V	32	c ×			
13	d	+	33	b +			
14	d	V	34	a >			
15	٥	1	35	e V			
16	Ь	V.	36	d ~			
17	d	7	37	b 7			
18	e	1.	38	(c)~			
19	kı	V.	39	d ×			
20	ь 6	X	40	bx			

14 = 2		/IPKEH!	INSIVE	EEX		NOITA	
NAN	ΛE:	Navee	na · m		ROLL	NO.	10
1	a	21	A	X	41	c.V	
2	6	22	<b>B</b> d	×	42	a ×	
. з	a. c	× 23	Ь.	×	43	c. V	•
4	8	× 24	C	1	44	b V	
5	a.	25	C	X	45	a. V	
6	C.	26	· D .	X	46	a V	
7	a	27	A	X	47	c 🗸	
8	6.	28	6.	×	48	b. ~	
9	a.	29	6.	V.	49	a. V	
10	a.	30	d	×	50	b ×	
11	C	31	d	_			
. 12	a. ;	∠ 32	a .				
13	b .	× 33	1 c	×			
14	d	34	a	×			
15	a	35	C.	~			
16	a·	× 36	B -	X			
17	c. v	37	9.	×			
18	a >	38	C	~			
19	В	39	a.	~			
20	D	× 40	a ·	X			

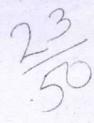
		1		Λ.					
NAN	ΛE:	A	Busi	the	K.T	ROL	LNC	. 44	5
1	a		21	B	/	41	a	X	
2	Ь	×	22	C	X	42	d	X	
3	c	X	23	C	×	43	C	/	
4	a		24	В	X	44	b	/	
5	a	~	25	c	×	45	C	X	
6	c		26	В	×	46	a	V	
. 7	a	V	27	A	X	47	d	*	
8	b		28	a	×	48	С	X	
9	a	~	29	b	V	49	a		
10	a	V	30	ь	~	50	d	. 7	
11	Ь	4	31	d	$\checkmark$				
12	a	X	32	a	V				
13	d	X	33	a	V				
14	d	/	34	c	X				
15	c	X	35	c	V				
16	c	X	36	0					
17	c ·	/	37	c	$\times$				
18	D	X	38	a	×				
19	A	X	39	a	/				
20	8	X	40	b	X				

ARTRE 40+00 A-18 ABY COL

	CC	ЭМРІ	REHI	ENSI	VE EX	(AMI	NAT	ION	
NAN	ΛE:	Ar	FEEF	A·K		ROL	LNC	).	01
1	a	/	21	A	*	41	C	~	
. 2	d	/	22	C	7	42	d	X.	
3	b	X	23	a	X	43	Ь	×	
4	a	- 4	24	В	- X	44	ь	~	
5	a	V	25	C	X	45	d	X	
6	C	/	26	В	X	46	a		
7	a		27	В	X	47	C		
8	b		28	a	X	48	C	X	
9	a	/	29	C.	. X	49	b	X	
10	·a	/	30	a	X	50	a	<b>\$</b>	
11	d	X	31	b	X				
12	c .	X	32	C	X				
13	Ь	X	33	A	V				
14	d	/	34	d	X				
15	a	V	35	d	X				
16	b	/	36	A	×				
17	C		37	a	X.				
18	C	/	38	C	/				
19	C	X	39	C	/				
20	В	+	40	b	X				

NAN	ΛΕ: \	lipin.	>. V	ROL	L NO.	14
1	bV	21	d V	41	a	V
2	av	22	c V	42	b	
3	6 1	23	c V	43.	Ь	V
4	av	24	a V	44	a	1
5	. c X	25	ax	45	d	V
6	ax	26	aX	46	d.	V
7	bV	27	dV	47	a	X
8	cX	28	a X	48	Ь	X
9	d V	29	bV	49	a	. /
10	cx	30	ьХ	50	ь	X
11	av	31	a X			
12	ax	32	d X			
13	d X	33	d X			
14	bV	34	CV			
15	c×	35	a. V			
16	bX	36	c·X			
17	dV	37	JX		1 57	
18	d X	38	cX			
19	ax	39	o X			
20	bx	40	6 X			

NAN	1E:	Mar	uya.	B		ROL	L NO.	11 -
1	ь	~	21	d	V	41	a	
2	a-	/	22	C	V	42	α.	X
3	a	X	23	С	V.	43	. b	
4	d	X	24	b	$\times$	44	to a	1
5	a		25	c.	/	45	#a	×
6	C		26	6	X	46	d	V
7	d	X	27	d.		47	C.	X
8	9	X	28	a.	X	48	q	V
9	b	X	29	Ь	V	49	b	X
10	d	X	30	b	X	50	a.	1
11	a	~	31	a	$\cdot \times$			
12	C	X	32	d	' ×			
13	c	V	33	a	~			
14	b		34	d	$\times$			
15	a	X	35	6	$\times$			
16	b	X	36	c	X			
17	d.		37	b	V			
18	a	V	38	a	X			
19	a	X	39	a	X			
20	b	X	40	Ь	. X			1 72



	CON	ИPR	EHE	ENSIVE EX	(AMI	NATION	
NAN	ΛE:	K	PAN	UPRIYA	ROL	L NO.	09
1	(a)		21	(A)×	41	(0)	V:
2	(d)		22	. (b) ×	42	(0)	X
3	(8)	V	23	(a) ×	43	(a)	X
4	(a)		24	(c) V	44	(6)	V
5	(e)	X	25	(B) X	45	(0)	X
6	(a)	X	26	(0) ·×	46	(a)	1.
7	(a)		27	(A) X	47	(c)	V
8	(b)		28	(a) X	48	(0)	X
9	(a)		29	(b) V	49	(a)	/
10	.(d)	X	30	(c) x	50	(a)	多~
11	(c)		31	(a) ×			
12	(d)	X	32	(b) ×			
13	(1)	×	33	(c) x			
14	(4)		34	(b) V			
· 15	(a)	~	35	(c) .			
16	(b)		36	(A) ×			
17	(D)	X	37	(b) ×			
18	(0)		38	(d) ×			
19	(A)	X	39	(c)			
20	(3)	X	40	61 ×			

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	C	OMPF	REHE	ENSI	VE EX	(AMI	NA	ΓΙΟΝ	
NAN	ME:	Ana	gha F	>		ROL	LN	0.	2
. 1	a.		21	D	*	41	C	/	
2	Ь	×	22	C	X	42	0	c -	
3	d	~	23	C	×	43	d	. X	
4	c	×	24	В	X	44	G	X	
5	a	/	25	Α	V-	45	b	X	
6	C		26	C	X	46	C	X	
7	a	/	27	A	X	47	a	X	
8	Ь	/	28	b	X	48	C	*	
9	a		29	C	X	49	10	a V	
- 10	a		30	C	X	50	b	X	
11	c	V	31	ь	X				
12	d	X	32	C	X				
13	e	X	33	a				4.	
14	a	X	34	b					
15	a	V	35	d					
16	Ь	V	36	D	~				
17	D	X	37	C	X				
18	A	X	38	C					
19	C	1	39	b					
20	В	X	40	a	X				



12.

	СО	MPF	REHE	NSIVE	EXA	MI	NAT	ION	
NAN	ΛE:	Sr	e has		F	ROL	L NC	).	12
1	4	av	√ 21 C × 41 C		V				
2	3	X	22	AV		42	A	X	
3	d	V	23	BX		43	C	V	
4	d	X	24	B ×		44	8		
. 5	a.		25	4.	<	45	3	X	
6	C		26	3 7	4	46	c	X	
7	a	V	27	PY		47			
8	Ь	/	28	p - >	<	48	c	×	
9	В	X	29	в		49	a	/	
10	c	X	30	в∨	/	50	13	X	
11	c		31	0					
12	c.	X	32	BB	X				
13	Α	/	33	p >	X				
14	d	/	34	B	/				
15	a	V	35	c '					
16	Ь	/	36	0	1				
17	D	X	37	- >	×				
18		X	38	7	4				
19		X	39						
20		X	40	5	4				

	СО	MPI	REHE	NSIV	E EX	AMII	NOITAN	
NAN	ЛЕ: .	H	arsho	S.		ROL	L NO.	. 8
1	C	7	21	c :	X	41	a <sub>X</sub>	
2	d	/	22	a		42	CX	
3	C	X	23	·C	X	43	a ×	
4	d	7	24	A	X	44	CX	
5	a	V	25		×	45	5 ×	
6	C	/	26	1	V	46	av	
7	a	V.	27	Δ	×	47	ax	
8	Ь	1	28	d	X	48	CX	
. 9	C	+	29	d	X	49	· a · 🗸	
10	d	+	30	3	X	50	6 1	
11	C	V/	31	C	X			
12	d	*	32	罗	by			
13	Ь	+	33	C	X			
14	d	~	34	a.	X			
15	a	V	35		V			
16	Ь	V/	36	<i>x</i>	X	-		
17	C	/	37	C	7			
18	A	7	38	C	/			
19	a	+	39	<b>®</b> 0	· ~			
20	A	~	40	a.	X			

## Course Objectives (COBs)

	TILY Year VI th Semester ECE Branch
COB-1	To assess the computerious knowledge gained in basic courses relevant to the branch of study.
COB-2	To comprehend the questions asked and answer them with confidence
СОВ-3	
COB-4	
COB-5	

## Course Outcomes (COs)

Laboratory (2): COMPRE HENSIVE	NO TAMENIMAKE.	Code: .5.C.352
Class: IIIrd Year IIth	Semester € S€	Branch

CO-1	The students will be confident in discussing the fundamental asherts of early engineering problem
604	fundamental aspects of early engineering problem of situation and give answers in Haling with them.
CO-2	The students will acquire practice in attending objective type questions.
CO-3	The students will be able to face all types of competitive exerns and interviews
CO-\$	The students will gain knowledge in all the fields of their branch of study.
CO-6	
CO-7	
CO-8	
CO-9	
CO-10	

## PEOs Mapping with Course

	Programme Educational Objectives								
Laboratory (2)	PEO-1	PEO-2	PEO-3	PEO-4	PEO-5				
COMPREHENSIVE EXAMINATION EC 352	3	3	3.	3					

## POs Mapping with COs

PS	05	Course		74			Prog	ramm	e Outc	omes				
PSOI		Outcomes	(	2	3	4	5	6	7	8	9	10	11	12
2	3	CO-1	3	2	2	2				2	3	3	2	3
		CO-2		31										
		CO-3					= -						,	
		CO-4										185		
		CO-5												
		CO-6									:=			
		CO-7												
		CO-8												
		CO-9					74.0							
		CO-10	The last			-					-3			

Note: 3 - Strong Contribution, 2-Average Contribution, \$-Some Contribution