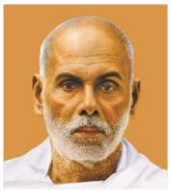
Sree Narayana Guru College
of Engineering & Technology
CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



TIME TABLE OF REMEDIAL CLASS AND TEST AND SAMPLES

SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

REMEDIAL CLASS - S4 CIVIL (2017-2021 BATCH)

FROM 23-04-2019 TO 26-04-2019

SL.NO	DAY	SUBJECT	SUBJECT HANDLER	SIGNATURE
1	TUESDAY	FM II - (CE 206)	Mr. Abhishek C V	
2	WEDNESDAY	GE I -(CE 208)	Ms. Risha Fathima Ismail	
3	THURSDAY	SAI - (CE202)	Ms. Shilpa Valsakumar	
4	FRIDAY	CT -(CE 204)	Dr. Susan Abraham	

(HoD, CE)

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SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

TIMETABLE FOR REMEDIAL TEST

ACADEMIC YEAR: 2018-2019/ EVEN SEM

REMEDIAL TEST TIMETABLE FOR S4

DATE AND DAY	FACULTY NAME	SUBJECT WITH CODE
23/04/19	Mr. Abhishek C V	FM II – CE 206
24/04/19	Ms. Risha fathima ismail	GE I – CE208
25/04/19	Mrs. Shilpa Valsakumar	SA I –CE 202
26/04/19	Dr. Susan Abraham	CT- CE 204

(HoD, CE)

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SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

REMEDIAL CLASS DETAILS

Department: CIVIL ENGINEERING

Date: 25/04/19

Venue: S4 CE CLASSROOM

Semester: Four

Subject: STRUCTURAL ANALYSIS I

Faculty: Mrs. SHILPA VALSAKUMAR

Topic: MOVING LOADS, CABLES AND ARCHES

Register number of student attended: SNC17CE013, SNC17CE006, SNC17CE041, SNC17CE043, SNC17CE026, & SNC17CE024.

FACULTY HANDLED

DEPT. REMEDIALCOORDINATOR

STUDENT ATTENDED (ANY)

HOD

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SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

REMEDIAL QUESTION PAPER

(2015 – SCHEME)

1) The system of concentrated load 20, 60, 60, 50, 40 kN respectively having spacing 1.5m , 1.5 m, 2m, 1m, consecutively move from left to right on a girder of span 15m. Determine the maximum shear force and bending moment for a section 4m from the left section. (15 marks)
2) A cable of span 120 m and dip 10 m carries a load of 6 kN/m. Find the maximum tension in the cable and inclination of cable at the support. Find the forces transmitted to the support. Find the forces transmitted to the support in pier if the cable passes over smooth pulleys on top of the pier. The anchor cable is at 30 degree to the horizontal. Determine the forces and bending moment on the pier if the height of the pier is 15 m. (10 marks)

(Faculty handled)

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REMEDIAL ANSWER KEY

1) Maximum negative shear = 24.66 kN (5 marks)
   Maximum positive shear = 121 kN (5 marks)
   Maximum bending moment = 533.94kNm (5 marks)
2) Reactions = 360kN, (1 mark)
   Horizontal reactions = 1080kN (1 mark)
   Maximum tension = 1138 kN (2 marks)
   Angle = 18.43 degree (2 marks)
   Vertical forces on the tower =9291 kN (2 marks)
   Horizontal forces on tower= 94.13kN (2 marks)

(Faculty handled)

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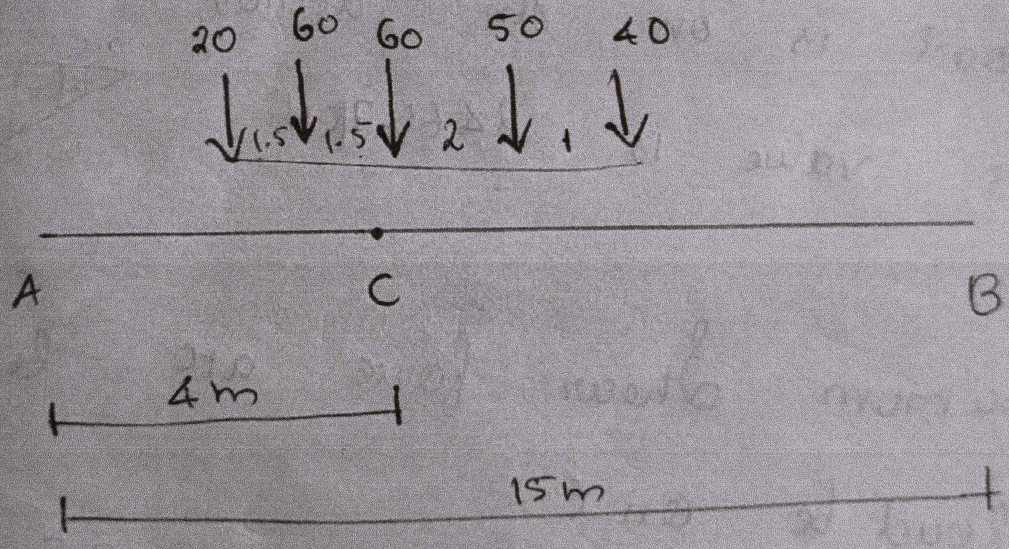
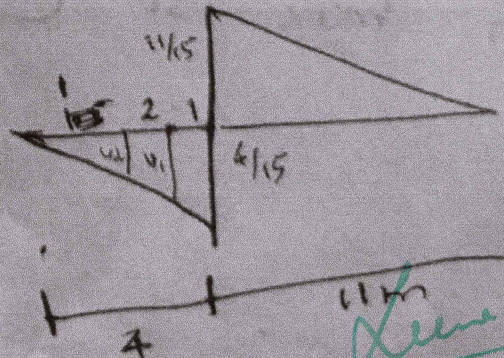
Anagha P
S4 CE

1) The system of concentrated load shown in figure move from left to right on a girder of span 15m determine the maximum SF and BM for a section 4m from the left section.



Case I

When 20kN act at C



$$\frac{y_2}{3} = \frac{4}{15 \times 4} \qquad \frac{y_1}{1} = \frac{4}{15 \times 4}$$

$$y_2 = \frac{1}{5} \qquad y_1 = \frac{1}{15}$$

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Negative SF at C $= 40 \times \frac{4}{15} + 50 \times \frac{1}{5} + 60 \times \frac{1}{15}$

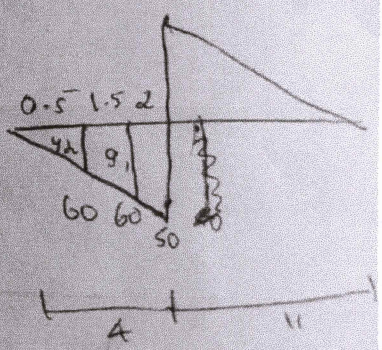
$= 24.607 kN$

When 50kN load reaches the section

Negative SF @ C $= -40 \times \frac{10}{15} + 50 \times \frac{4}{15} + 60 \times \frac{2}{15} + 60 \times \frac{5}{15}$

$= -3.333 kN$

∴ Maximum Shear force is when 40kN load is on the section and its value is 24.607kN



For Maximum Shear force at C let the 20kN load be on C

Then max SF @ C $= 20 \times \frac{11}{15} + 60 \times \frac{9.5}{15} + 60 \times \frac{8}{15} + 50 \times \frac{6}{15} + 40 \times \frac{5}{15}$

$= 118 kN$

Leena

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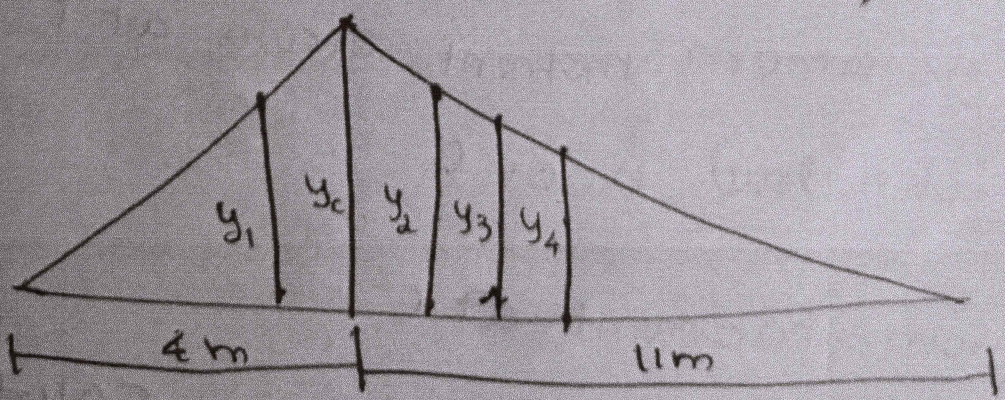
since 20kN is a light load, let us try the case, when trailing 60kN load is on C

$$SF \text{ at } C = \left\{ -20 \times \frac{2.5}{15} + 60 \times \frac{11}{15} + 60 \times \frac{9.5}{15} + 50 \times \frac{7.5}{15} + 40 \times \frac{6.5}{15} \right\}$$

$$= \underline{121kN}$$

Therfore maximum positive SF occurs when trailing 60kN load is on the section and its value = 121kN

Maximum bending Moment



Since 20kN is a light load, let us try the case, when trailing 60kN load is on

$$y_c = \frac{z(l-z)}{l} = \frac{4(15-4)}{15}$$

$$= 2.933$$

Load crossing	Average load AC	Average load CB	Remarks
40 kN	$\frac{190}{4}$	$\frac{40}{11}$	$W_{AC} > W_{CB}$
50 kN	$\frac{140}{4}$	$\frac{90}{11}$	$W_{AC} > W_{CB}$
60 kN	$\frac{80}{4}$	$\frac{150}{11}$	$W_{AC} > W_{CB}$
60 kN	$\frac{20}{4}$	$\frac{210}{11}$	$W_{AC} < W_{CB}$

Therfore maximum moment occurs at C when the second 60kN load is on C

Maximum moment at C

$$= 20y_1 + 60y_c + 60y_2 + 50y_3 + 40y_4$$

$$= \left(20 \times \frac{2.5}{4} + 60 + 60 \times \frac{9.5}{11} + 50 \times \frac{7.5}{15} + 40 \times \frac{6.5}{15}\right) y_c$$

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= 533.94 kNm

14/15

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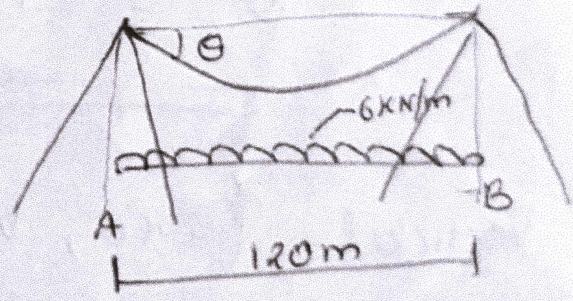
A cable of span 120m and dip 10m carries a load of 6KN/m. Find the maximum Tension in the cable and inclination of cable at the support. Find the forces transmitted to the support in the pier if the cable passes over smooth pulley's on top of the pier. The anchor cable is at 30° to the horizontal. determine the forces and bending moment on the pier if the height of the pier is 15m



$l = 120m$, $h = 10m$

$w = 6KN/m$, $\alpha = 30°$

$$R_A = R_B = \frac{wl}{2}$$

$$= \frac{6 \times 120}{2} = 360$$

$$R_A = R_B = 360 KN$$

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$$H = \frac{wl^2}{8h} = \frac{6 \times 120^2}{8 \times 10} = 1080\ m$$

$$T_{max} = \sqrt{R_a^2 + H^2}$$

$$= 1138.42\ kN$$

$$H = T \cos\theta$$

$$1080 = 1138.42 \cos\theta$$

$$\cos\theta = 0.94$$

$$\theta = 18.43$$

Vertical force, $V_F = T(\sin\alpha + \sin\theta)$

$$V_F = 929.1\ kN$$

Horizontal force, $H_F = T(\cos\alpha - \cos\theta)$

$$H_F = 94.13\ kN$$

10/10

Maximum Bending moment = H_F [illegible]

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SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIMETABLE FOR REMEDIAL CLASS

ACADEMIC YEAR: 2022-2023/ODD SEM

Remedial Timetable for S3

Library Hour: Tuesday -3:00 pm to 4:00 pm

Date and Day	Faculty Name	Subject with Code
25-10-22	Mrs. Thulasibai A	CST 201 DS
01-11-22	Mr. Divyathej MV	EST 200-DE
08-11-22	Mrs. Varsha M	CST-203-LSD
15-11-22	Mrs. Thulasibai A	CST 201-DS
22-11-22	Mr. Divyathej MV	EST 200-DE
29-11-22	Mrs. Varsha M	CST-203-LSD

Physical Education Hour: Friday-1:00pm to 2:00 pm

Date	Faculty Name	Subject with Code
28-10-22	Mr. Nikhil	MAT 203-DMS
04-11-22	Mr. Priyesh Padhmanabhan	MCN 201-SE
11-11-22	Ms. Nimisha MK	CST 205-OOPUJ
18-11-22	Mr. Nikhil	MAT 203-DMS
25-11-22	Mr.Priyesh Padhmanabhan	MCN 201-SE
02-12-22	Ms. Nimisha MK	CST 205-OOPUJ

Remedial- co-ordinator.

HoD CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIMETABLE FOR REMEDIAL TEST

ACADEMIC YEAR: 2022-2023/ODD SEM

REMEDIAL TEST TIMETABLE FOR S3

Date and Day	Faculty Name	Subject with Code
17-11-22	Mrs. Thulasibai A	CST 201 DS
23-11-22	Mr. Divyathej MV	EST 200-DE
30-11-22	Mrs. Varsha M	CST-203-LSD
15-11-22	Mr. Nikhil	MAT 203-DMS
30-11-22	Mr. Priyesh Padhmanabhan	MCN 201-SE
05-12-22	Ms. Nimisha MK	CST 205-OOPUJ

Remedial - Co-ordinator.

HoD CSE

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SREE NARAYANA GURU COLLEGE OF ENGINEERING &TECHNOLOGY

REMEDIAL CLASS DETAILS

Department: COMPUTER SCIENCE AND ENGINEERING

Date:11/11/2022

Venue: S3 CSE CLASSROOM

Semester: III

Subject: OBJECT ORIENTED PROGRAMMING USING JAVA

Faculty: Ms. Nimisha MK

Topic: Basic OOP and Java Programming Concepts

Roll number of students attended: SNC21CS001, SNC21CS002, SNC21CS003, SNC21CS005, SNC21CS006, SNC21CS016, SNC21CS030, SNC21CS031, SNC21CS032

Nimisha 11/11/22

FACULTY HANDLED

11/11/22.

DEPT. REMEDIAL COORDINATOR

STUDENT ATTENDED (ANY)

M-Mohammed Zidan

Mohammed Zahran

Abhinav K

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SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

REMEDIAL CLASS DETAILS

Department: COMPUTER SCIENCE AND ENGINEERING

Academic Year: 2022-2023/ODD

Date:02/12/2022

Venue: S3 CSE CLASSROOM

Semester: III

Subject: OBJECT ORIENTED PROGRAMMING USING JAVA

Faculty: Ms. Nimisha MK

Topic: Exception Handling

Roll number of students attended: SNC21CS001, SNC21CS002, SNC21CS003, SNC21CS005, SNC21CS006, SNC21CS016, SNC21CS030, SNC21CS031, SNC21CS032

FACULTY HANDLED **DEPT. REMEDIAL COORDINATOR**

STUDENT ATTENDED (ANY)

Mohammed Zahran

M. Mohammed Fidan

Abhinav k

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SREE NARAYANA GURU COLLEGE OF ENGINEERING &TECHNOLOGY

DEPART MENT OF COMPUTER SCIENCE AND ENGINEERING

CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA

S3 CSE 2022-23 (BATCH 2021-25)

REMEDIAL CLASS TEST QUESTION PAPER

Date: .....

Name:..... Register Number: .....

I) MULTIPLE CHOICE QUESTION – OOP CONCEPTS

1. Which of the following is not an OOPS concept?
   a. Encapsulation
   b. Polymorphism
   c. Exception
   d. Abstraction
2. Which feature of OOPS described the reusability of code?
   1. Abstraction
   2. Encapsulation
   3. Polymorphism
   4. Inheritance
3. Which among the following feature is not in the general definition of OOPS?
   a. Modularity
   b. Efficient Code
   c. Code reusability
   d. Duplicate or Redundant Data
4. Which feature of OOPS derives the class from another class?
   a. Inheritance
   b. Data hiding
   c. Encapsulation
   d. Polymorphism
5. Which operator from the following can be used to illustrate the feature of polymorphism?
   a. Overloading <<
   b. Overloading &&
   c. Overloading ||
   d. dOverloading +=
6. Which header file is required by the C++ programming language to use the OOPS concept?
   a. stdio.h
   b. iostream.h
   c. stdlib.h
   d. We can easily use the OOPS concepts in c++ programs without using any header file.
7. Which among the following cannot be used for the concept of polymorphism?

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7. Which among the following cannot be used for the concept of polymorphism?
    a. Static member function
    b. Constructor Overloading
    c. Member function overloading
    d. Global member function
8. Which member function is assumed to call first when there is a case of using function overloading or abstract class?
    a. Global function
    b. Local function
    c. Function with lowest priority
    d. Function with the highest priority
9. Which among the following is not a member of the class?
    a. Virtual function
    b. const function
    c. Static function
    d. Friend function
10. Which member of the superclass is never accessible to the subclass?
    a. Public member
    b. Protected member
    c. Private member
    d. All of the mentioned

ANSWER KEY

1. C
2. D
3. D
4. A
5. A
6. D
7. A
8. D
9. D
10. C

II) MULTIPLE CHOICE QUESTION – JAVA PROGRAMS

1. Who invented Java Programming?
    a. Guido van Rossum
    b. James Gosling
    c. Dennis Ritchie
    d. Bjarne Stroustrup

2. Which statement is true about Java?

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a. Java is a sequence-dependent programming language
b. Java is a code dependent programming language
c. Java is a platform-dependent programming language
d. Java is a platform-independent programming language

3. Which component is used to compile, debug and execute the java programs?
   a. JRE
   b. JIT
   c. JDK
   d. JVM

4. Which of these cannot be used for a variable name in Java?

   a. identifier & keyword
   b. identifier
   c. keyword
   d. none of the mentioned

5. What will be the output of the following Java code?

```
class increment
{
public static void main(String args[])
{
int g = 3;
System.out.print(++g * 8);
}
}
```

   a. 32
   b. 33
   c. 24
   d. 25
   e.

6. What will be the output of the following Java program?

```
class output {
public static void main(String args[])
{
double a, b,c;
a = 3.0/0;
b = 0/4.0;
c=0/0.0;
System.out.println(a);
```

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```
System.out.println(b);
System.out.println(c);
}
}
```

a. NaN
b. Infinity
c. 0.0
d. all of the mentioned

7. What is not the use of "this" keyword in Java?

a. Referring to the instance variable when a local variable has the same name
b. Passing itself to the method of the same class
c. Passing itself to another method
d. Calling another constructor in constructor chaining

8. What will be the output of the following Java program?

```
class variable_scope
{
public static void main(String args[])
{
int x;
x = 5;
{
int y = 6;
System.out.print(x + " " + y);
}
System.out.println(x + " " + y);
}
}
```

a. Compilation error
b. Runtime error
c. 5 6 5 6
d. 5 6 5

9. What will be the output of the following Java program?

```
class leftshift_operator

{
```

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```
public static void main(String args[])
{
byte x = 64;
int i;
byte y;
i = x << 2;
y = (byte) (x << 2);
System.out.print(i + " " + y);
}
}
```

a. 0 256
b. 0 64
c. 256 0
d. 64 0

10. What is the extension of compiled java classes?

a. .txt
b. .js
c. .class
d. .java

ANSWER KEY

1. B
2. D
3. C
4. C
5. A
6. D
7. B
8. A
9. C
10. C

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DEPART MENT OF COMPUTER SCIENCE AND ENGINEERING

CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA

S3 CSE 2022-23 (BATCH 2021-25)

REMEDIAL CLASS TEST QUESTION PAPER

17/20

Nine

Date: ...5/12/22

Name:...Abhinav Dharmaraj Register Number: ...SNGA1CS001...

I) MULTIPLE CHOICE QUESTION – OOP CONCEPTS

1. Which of the following is not an OOPS concept?
   a. Encapsulation
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2. Which feature of OOPS described the reusability of code?
   1. Abstraction
   2. Encapsulation
   3. Polymorphism
   4. Inheritance ✓
3. Which among the following feature is not in the general definition of OOPS?
   a. Modularity
   b. Efficient Code
   c. Code reusability
   d. Duplicate or Redundant Data ✓
4. Which feature of OOPS derives the class from another class?
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   b. Data hiding
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5. Which operator from the following can be used to illustrate the feature of polymorphism?
   a. Overloading << ✓
   b. Overloading &&
   c. Overloading ||
   d. dOverloading +=
6. Which header file is required by the C++ programming language to use the OOPS concept?
   a. stdio.h
   b. iostream.h
   c. stdlib.h
   d. We can easily use the OOPS concepts in c++ programs without using any header file. ✓
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Leena

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a. Static member function
b. Constructor Overloading
c. Member function overloading ✓
d. Global member function

8. Which member function is assumed to call first when there is a case of using function overloading or abstract class?
   a. Global function ✓
   b. Local function
   c. Function with lowest priority
   d. Function with the highest priority
9. Which among the following is not a member of the class?
   a. Virtual function
   b. const function
   c. Static function
   d. Friend function ✓
10. Which member of the superclass is never accessible to the subclass?
   a. Public member
   b. Protected member
   c. Private member ✓
   d. All of the mentioned

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   c. JDK ✓
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   a. identifier & keyword
   b. identifier
   c. keyword ✓
   d. none of the mentioned

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5. What will be the output of the following Java code?

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b. 33
c. 24
d. 25

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```
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c=0/0.0;
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System.out.println(b);
System.out.println(c);
}
}
```

a. NaN
b. Infinity
c. 0.0
d. all of the mentioned ✓

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{
int y = 6;
```

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```
System.out.print(x + " " + y);
}
System.out.println(x + " " + y);
}
}
```

a. Compilation error
b. Runtime error
c. 5 6 5 6
d. 5 6 5 ✓

9. What will be the output of the following Java program?

```
class leftshift_operator
{
public static void main(String args[])
{
byte x = 64;
int i;
byte y;
i = x << 2;
y = (byte) (x << 2);
System.out.print(i + " " + y);
}
}
```

a. 0 256
b. 0 64
c. 256 0 ✓
d. 64 0

10. What is the extension of compiled java classes?

a. .txt
b. .js
c. .class ✓
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DEPART MENT OF COMPUTER SCIENCE AND ENGINEERING

CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA

S3 CSE 2022-23 (BATCH 2021-25)

REMEDIAL CLASS TEST QUESTION PAPER

19

20

Date: 06/12/22

Name: ABHINAV.K Register Number: ...6NC21CS002...

I) MULTIPLE CHOICE QUESTION – OOP CONCEPTS

1. Which of the following is not an OOPS concept?
   a. Encapsulation
   b. Polymorphism
   c. Exception
   d. Abstraction
2. Which feature of OOPS described the reusability of code?
   1. Abstraction
   2. Encapsulation
   3. Polymorphism
   4. Inheritance
3. Which among the following feature is not in the general definition of OOPS?
   a. Modularity
   b. Efficient Code
   c. Code reusability
   d. Duplicate or Redundant Data
4. Which feature of OOPS derives the class from another class?
   a. Inheritance
   b. Data hiding
   c. Encapsulation
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5. Which operator from the following can be used to illustrate the feature of polymorphism?
   a. Overloading <<
   b. Overloading &&
   c. Overloading ||
   d. dOverloading +=
6. Which header file is required by the C++ programming language to use the OOPS concept?
   a. stdio.h
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   c. stdlib.h
   d. We can easily use the OOPS concepts in c++ programs without using any header file.
7. Which among the following cannot be used for the concept of polymorphism?

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a. Static member function
b. Constructor Overloading
c. Member function overloading
d. Global member function

8. Which member function is assumed to call first when there is a case of using function overloading or abstract class?
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b. Local function
c. Function with lowest priority
d. Function with the highest priority

9. Which among the following is not a member of the class?
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b. const function
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10. Which member of the superclass is never accessible to the subclass?
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b. Protected member
c. Private member
d. All of the mentioned

II) MULTIPLE CHOICE QUESTION – JAVA PROGRAMS

1. Who invented Java Programming?
a. Guido van Rossum
b. James Gosling
c. Dennis Ritchie
d. Bjarne Stroustrup

2. Which statement is true about Java?
a. Java is a sequence-dependent programming language
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b. identifier
c. keyword
d. none of the mentioned

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5. What will be the output of the following Java code?

```
class increment
{
public static void main(String args[])
{
int g = 3;
System.out.print(++g * 8);
}
}
```

a. 32
b. 33
c. 24
d. 25

6. What will be the output of the following Java program?

```
class output {
public static void main(String args[])
{
double a, b,c;
a = 3.0/0;
b = 0/4.0;
c=0/0.0;
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System.out.println(b);
System.out.println(c);
}
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```

a. NaN
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   a. Referring to the instance variable when a local variable has the same name
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class variable_scope {
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System.out.print(x + " " + y);
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DEPART MENT OF COMPUTER SCIENCE AND ENGINEERING

CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA

S3 CSE 2022-23 (BATCH 2021-25)

REMEDIAL CLASS TEST QUESTION PAPER

16/20

Date: 5/12/22

Name: Abhinav K

Register Number: SNC21CS003

I) MULTIPLE CHOICE QUESTION – OOP CONCEPTS

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2. Which feature of OOPS described the reusability of code?
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```

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```
System.out.print(x + " " + y);
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a. Compilation error
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CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA

S3 CSE 2022-23 (BATCH 2021-25)

REMEDIAL CLASS TEST QUESTION PAPER

20/20

Date: ...5/12/22...

Name:..Ahisam.Sunil

Register Number: ....SNGC21CS005.....

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5. What will be the output of the following Java code?

```
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{
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a. 32
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```
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```
System.out.print(x + " " + y);
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CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA

S3 CSE 2022-23 (BATCH 2021-25)

REMEDIAL CLASS TEST QUESTION PAPER

16/20

Nimsu

Date: 5-12-22

Name: Adarsh Chandhran K.V Register Number: SNC21CS006

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REMEDIAL CLASS TEST QUESTION PAPER

17/20

Nine to

Date: 5.12.22.

Name: Anjum K V

Register Number: SNGC21CS016

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public static void main(String args[])
{
double a, b,c;
a = 3.0/0;
b = 0/4.0;
c=0/0.0;
System.out.println(a);
System.out.println(b);
System.out.println(c);
}
}
```

a. NaN
b. Infinity
c. 0.0
d. all of the mentioned

7. What is not the use of "this" keyword in Java?
a. Referring to the instance variable when a local variable has the same name
b. Passing itself to the method of the same class
c. Passing itself to another method
d. Calling another constructor in constructor chaining

8. What will be the output of the following Java program?

```
class variable_scope {
public static void main(String args[])
{
int x;
x = 5;
{
int y = 6;
```

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```
System.out.print(x + " " + y);
}
System.out.println(x + " " + y);
}
}
```

a. Compilation error
b. Runtime error
c. 5 6 5 6 ✓
d. 5 6 5

9. What will be the output of the following Java program?

```
class leftshift_operator
{
public static void main(String args[])
{
byte x = 64;
int i;
byte y;
i = x << 2;
y = (byte) (x << 2);
System.out.print(i + " " + y);
}
 }
```

a. 0 256
b. 0 64
c. 256 0 ✓
d. 64 0

10. What is the extension of compiled java classes?

a. .txt
b. .js
c. .class ✓
d. .java

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DEPART MENT OF COMPUTER SCIENCE AND ENGINEERING

CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA

S3 CSE 2022-23 (BATCH 2021-25)

REMEDIAL CLASS TEST QUESTION PAPER

15/20

Date: 5/12/22

Name: M. Mohammed Fidan Register Number: SNC21CS030

I) MULTIPLE CHOICE QUESTION – OOP CONCEPTS

1. Which of the following is not an OOPS concept?
   a. Encapsulation
   b. Polymorphism
   c. Exception
   d. Abstraction
2. Which feature of OOPS described the reusability of code?
   1. Abstraction
   2. Encapsulation
   3. Polymorphism
   4. Inheritance
3. Which among the following feature is not in the general definition of OOPS?
   a. Modularity
   b. Efficient Code
   c. Code reusability
   d. Duplicate or Redundant Data
4. Which feature of OOPS derives the class from another class?
   a. Inheritance
   b. Data hiding
   c. Encapsulation
   d. Polymorphism
5. Which operator from the following can be used to illustrate the feature of polymorphism?
   a. Overloading <<
   b. Overloading &&
   c. Overloading ||
   d. dOverloading +=
6. Which header file is required by the C++ programming language to use the OOPS concept?
   a. stdio.h
   b. iostream.h
   c. stdlib.h
   d. We can easily use the OOPS concepts in c++ programs without using any header file.
7. Which among the following cannot be used for the concept of polymorphism?

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a. Static member function
b. Constructor Overloading
c. Member function overloading
d. Global member function

8. Which member function is assumed to call first when there is a case of using function overloading or abstract class?
   a. Global function
   b. Local function
   c. Function with lowest priority
   d. Function with the highest priority
9. Which among the following is not a member of the class?
   a. Virtual function
   b. const function
   c. Static function
   d. Friend function
10. Which member of the superclass is never accessible to the subclass?
   a. Public member
   b. Protected member
   c. Private member
   d. All of the mentioned

II) MULTIPLE CHOICE QUESTION – JAVA PROGRAMS

1. Who invented Java Programming?
   a. Guido van Rossum
   b. James Gosling
   c. Dennis Ritchie
   d. Bjarne Stroustrup

2. Which statement is true about Java?
   a. Java is a sequence-dependent programming language
   b. Java is a code dependent programming language
   c. Java is a platform-dependent programming language
   d. Java is a platform-independent programming language

3. Which component is used to compile, debug and execute the java programs?
   a. JRE
   b. JIT
   c. JDK
   d. JVM

4. Which of these cannot be used for a variable name in Java?
   a. identifier & keyword
   b. identifier
   c. keyword
   d. none of the mentioned

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5. What will be the output of the following Java code?

```
class increment
{
public static void main(String args[])
{
int g = 3;
System.out.print(++g * 8);
}
}
```

a. 32
b. 33
c. 24
d. 25

6. What will be the output of the following Java program?

```
class output {
public static void main(String args[])
{
double a, b,c;
a = 3.0/0;
b = 0/4.0;
c=0/0.0;
System.out.println(a);
System.out.println(b);
System.out.println(c);
}
}
```

a. NaN
b. Infinity
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```

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```
System.out.print(x + " " + y);
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System.out.println(x + " " + y);
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a. Compilation error
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}
}
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a. 0 256
b. 0 64
c. 256 0
d. 64 0

10. What is the extension of compiled java classes?

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DEPART MENT OF COMPUTER SCIENCE AND ENGINEERING

CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA

S3 CSE 2022-23 (BATCH 2021-25)

REMEDIAL CLASS TEST QUESTION PAPER

16/20

Nil 20

Date: 20/05/22

Name: Mohamed Zahran Register Number: SNC21CS031

I) MULTIPLE CHOICE QUESTION – OOP CONCEPTS

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   c. Function with lowest priority
   d. Function with the highest priority
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   b. const function
   c. Static function
   d. Friend function
10. Which member of the superclass is never accessible to the subclass?
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   b. Protected member
   c. Private member
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5. What will be the output of the following Java code?

```
class increment
{
public static void main(String args[])
{
int g = 3;
System.out.print(++g * 8);
}
}
```

a. 32
b. 33
c. 24
d. 25

6. What will be the output of the following Java program?

```
class output {
public static void main(String args[])
{
double a, b,c;
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c=0/0.0;
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System.out.println(b);
System.out.println(c);
}
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```

a. NaN
b. Infinity
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class variable_scope {
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{
int x;
x = 5;
{
int y = 6;
```

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```
System.out.print(x + " " + y);
}
System.out.println(x + " " + y);
}
}
```

a. Compilation error
b. Runtime error
c. 5 6 5 6
d. 5 6 5

9. What will be the output of the following Java program?

```
class leftshift_operator
{
public static void main(String args[])
{
byte x = 64;
int i;
byte y;
i = x << 2;
y = (byte) (x << 2);
System.out.print(i + " " + y);
}
 }
```

a. 0 256
b. 0 64
c. 256 0
d. 64 0

10. What is the extension of compiled java classes?

a. .txt
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DEPART MENT OF COMPUTER SCIENCE AND ENGINEERING

CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA

S3 CSE 2022-23 (BATCH 2021-25)

REMEDIAL CLASS TEST QUESTION PAPER

19/20

Nine

Date: 5/12/22

Name: Muhammed Adhan EM Register Number: SNC21CS032

I) MULTIPLE CHOICE QUESTION – OOP CONCEPTS

1. Which of the following is not an OOPS concept?
   a. Encapsulation
   b. Polymorphism
   c. Exception ✓
   d. Abstraction
2. Which feature of OOPS described the reusability of code?
   1. Abstraction
   2. Encapsulation
   3. Polymorphism
   4. Inheritance ✓
3. Which among the following feature is not in the general definition of OOPS?
   a. Modularity
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   d. Duplicate or Redundant Data ✓
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   d. We can easily use the OOPS concepts in c++ programs without using any header file ✓
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Leena

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a. Static member function
b. Constructor Overloading
c. Member function overloading
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8. Which member function is assumed to call first when there is a case of using function overloading or abstract class?
   a. Global function
   b. Local function
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II) MULTIPLE CHOICE QUESTION – JAVA PROGRAMS

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3. Which component is used to compile, debug and execute the java programs?
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4. Which of these cannot be used for a variable name in Java?
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class increment
{
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{
int g = 3;
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}
```

a. 32 ✓
b. 33
c. 24
d. 25

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```
class output {
public static void main(String args[])
{
double a, b,c;
a = 3.0/0;
b = 0/4.0;
c=0/0.0;
System.out.println(a);
System.out.println(b);
System.out.println(c);
}
}
```

a. NaN
b. Infinity
c. 0.0
d. all of the mentioned ✓

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7. What is not the use of "this" keyword in Java?
   a. Referring to the instance variable when a local variable has the same name
   b. Passing itself to the method of the same class ✓
   c. Passing itself to another method
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8. What will be the output of the following Java program?

```
class variable_scope {
public static void main(String args[])
{
int x;
x = 5;
{
int y = 6;
```

```
System.out.print(x + " " + y);
}
System.out.println(x + " " + y);
}
}
```

a. Compilation error ✓
b. Runtime error
c. 5 6 5 6
d. 5 6 5

9. What will be the output of the following Java program?

```
class leftshift_operator
{
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{
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y = (byte) (x << 2);
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}
}
```

a. 0 256
b. 0 64
c. 256 0 ✓
d. 64 0

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REMEDIAL TIMETABLE for S4

ACADEMIC YEAR: 2019-2020/EVEN SEM

Library Hour: Tuesday – 3:00pm to 4:00pm

Date	Faculty Name	Subject with Code
09/03/2020	Mr. Nikhil M	MA 202 - PRNM
10/03/2020	Ms. Subitha M B	EC 202 - SS
11/03/2020	Ms. Srindhuna M	EC 204 - AIC
12/03/2020	Ms. Leena Narayanan	EC 206 - CO
13/03/2020	Ms. Roshni V V	EC 208 - ACE

Library Hour: Tuesday – 3:00pm to 4:00pm

Date	Faculty Name	Subject with Code
20/04/2020	Mr. Nikhil M	MA 202 - PRNM
21/04/2020	Ms. Subitha M B	EC 202 - SS
22/04/2020	Ms. Srindhuna M	EC 204 - AIC
23/04/2020	Ms. Leena Narayanan	EC 206 - CO
24/04/2020	Ms. Roshni V V	EC 208 - ACE

Roshni
Remedial Coordinator

HOD ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TIMETABLE FOR REMEDIAL TEST

ACADEMIC YEAR: 2019-2020/EVEN SEM

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Date	Faculty Name	Subject with Code
20/04/2020	Mr. Nikhil M	MA 202 - PRNM
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Roshni
Remedial Coordinator

HOD ECE

Leena

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REMEDIAL CLASS DETAILS

Department: ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 22/04/2020

Venue: S4 ECE Classroom

Semester: IV

Subject: Analog Integrated Circuits

Faculty: Ms. Srindhuna M

Topic: Analog Amplifier and its characteristics

Roll Number of students allotted: SNC18EC001, SNC18EC003 and SNC18EC006.

FACULTY HANDLED DEPT. REMEDIAL COORDINATOR HOD

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REMEDIAL CLASS TEST QUESTION PAPER & SCHEME

1. What is the primary function of an antilog amplifier?

   A) To perform multiplication

   B) To perform division

   C) To perform differentiation

   D) To perform integration

2. Which of the following configurations is commonly used for an antilog amplifier?

   A) Inverting amplifier

   B) Non-inverting amplifier

   C) Differential amplifier

   D) Summing amplifier

3. In an antilog amplifier, the input voltage is applied to the:

   A) Inverting input terminal

   B) Non-inverting input terminal

   C) Summing input terminal

   D) Output terminal

4. The output voltage of an antilog amplifier is proportional to the:

   A) Logarithm of the input voltage

   B) Square of the input voltage

   C) Exponential of the input voltage

   D) Reciprocal of the input voltage

5. What is the transfer function of an antilog amplifier?

   A) Vo = -Rf/R1 * Vin

   B) Vo = -Rf/R1 * log(Vin)

   C) Vo = -Rf/R1 * exp(Vin)

   D) Vo = -Rf/R1 * sqrt(Vin)

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6. Which of the following components is used to achieve the antilogarithmic function in an antilog amplifier?

A) Diode

B) Capacitor

C) Inductor

D) Resistor

7. The antilog amplifier is often used in applications where:

A) Precision logarithmic scaling is required

B) Precision linear scaling is required

C) High-frequency filtering is required

D) Low-frequency filtering is required

8. What is the effect of temperature on the performance of an antilog amplifier?

A) Minimal effect

B) Significant effect

C) No effect

D) Inverse effect

9. Which of the following statements is true about the input impedance of an antilog amplifier?

A) It is low

B) It is high

C) It is medium

D) It depends on the configuration

10. In an antilog amplifier, the output voltage is:

A) Inversely proportional to the input voltage

B) Directly proportional to the input voltage

C) Unrelated to the input voltage

D) Constant

ANSWER KEY

1. Answer: A) To perform multiplication
2. Answer: A) Inverting amplifier
3. Answer: A) Inverting input terminal
4. Answer: C) Exponential of the input voltage
5. Answer: B) Vo = -Rf/R1 * log(Vin)
6. Answer: A) Diode
7. Answer: A) Precision logarithmic scaling is required
8. Answer: B) Significant effect
9. Answer: A) It is low
10. Answer: B) Directly proportional to the input voltage

Faculty

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Aparna Sajikumar
SNIC18EC001

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REMEDIAL CLASS TEST QUESTION PAPER

7/10

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SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REMEDIAL TIMETABLE for S5

ACADEMIC YEAR: 2022-2023/ODD SEM

Time: 11.15am to 12.15pm

Date	Faculty Name	Subject with Code
03/11/2022	Ms.Archana C.P.	EET305- Signals & Systems

HODEEE

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SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TIMETABLE FOR REMEDIAL TEST

ACADEMIC YEAR: 2022-2023/ODDSEM

Time: 11.15am to 12.15pm

REMEDIAL TEST TIMETABLE FOR S5

Date	Faculty Name	Subject with Code
03/11/2022	Ms.Archana C.P.	EET305- Signals & Systems

HOD/EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REMEDIAL CLASS DETAILS

Department: ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 10/11/2022

Venue: S5 EEE Classroom

Semester: Fifth

Subject: Signals and Systems

Faculty: Ms. Archana C.P.

Topic: Routh criterion

Roll Number of students allotted: SNC20EE001, SNC20EE002 and SNC20EE003

FACULTY HANDLED

DEPT. REMEDIAL COORDINATOR

HOD

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REMEDIAL	**I**	*Academic Year/Semester*	**2022-23 / 5th Semester**
Subject name with code	**EET305-SIGNALS & SYSTEMS**	*Branch*	**EEE**
Date of Issue	**10/11/2022**	*Date of submission*	**10/11/2022**

Q.No	*QUESTIONS*	*Marks*	*CO*	*Level*
1	Analyse the stability of the given LTI system, whose characteristic equation is given by $Q(s) = S^4 + 8S^3 + 18S^2+16S+5 = 0$ using Routh's criterion.	5	3	3
2	Check stability of the system represented by the following characteristic equation, $S^6 + 2S^5 + 8S^4 + 12S^3 + 20\,S^2 + 16s + 16 = 0$	**5**	**3**	**3**

CO - Course Outcome [CO]

CO 3: Analyse the continuous time systems with Laplace Transform.

LEVEL - Bloom's Taxonomy Level

Level 1: Reminder
Level 2: Understood
Level 3: Apply

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SCHEME OF EVALUATION

REMEDIAL	**I**	*Academic Year/Semester*	**2022-23 / 5th Semester**
Subject name with code	**EET305-SIGNALS & SYSTEMS**	*Branch*	**EEE**
Date of Issue	**10/11/2022**	*Date of submission*	**10/11/2022**

Q.No	*QUESTIONS*
1	Steps-(4marks) Comment on stability-(1marks)
2	Steps-(4marks) Comment on stability-(1marks)

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MODULE-3

ROUTH HURWITZ CRITERION

1Q: Using Routh Criterion determine the stability of the System represented by the equation.

$$s^4 + 8s^3 + 18s^2 + 16s + 5 = 0$$

Ans:

s^4	1	18	5
s^3	8	16	

s^4	1	18	5
s^3	1	2	
s^2	16	5	
s^1	1.7		
s^0	5		

Here on examing the element of first column, it is observed that all elements are positive and there is no sign change. Hence, the System is Stable.

2Q: Construct Routh and determine the stability of the System whose equation is.

$$s^6 + 2s^5 + 8s^4 + 12s^3 + 20s^2 + 16s + 16 = 0$$

Also determine the number of roots lying on right half of s plane left half of s plane and on imaginery axis.

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Solution:

s^6	1	8	20	16
s^5	2	12	16	
s^4	2	12	16	
s^3	0	0		

$s^4 =$ 2 12 16

$A = s^4 + 6s^2 + 8$

$\frac{dA}{ds} = 4s^3 + 12s$

$= s^3 + 3s$

s^6	1	8	20	16
s^5	2	12	16	
s^4	2	12	16	
s^3	-1	3		
s^2	6	16		
s^1	0.33			
s^0	16			

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Here on examing element of first column it is observed that there is no sign change. The row with all zeros indicate the possibility of roots of imaginery axis.
Hence, the System is marginaly stable or limitedly stable.
Consider the eqn,

$s^4 =$ 2 12 16

$2s^4 + 12s + 16$

put $s^2 = x$, $2x^2 + 12x + 16 = 0$

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$$= \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$= \frac{-12 \pm \sqrt{12^2 - 4 \times 2 \times 16}}{2 \times 2}$$

$$= \frac{-12 \pm \sqrt{144 - 128}}{4}$$

$$= \frac{-12 \pm \sqrt{16}}{4}$$

$$= \frac{-12 \pm 4}{4}$$

$$= (-2, -4)$$

$x^2 = -2, -4$

$x = \sqrt{-2}$ and $\sqrt{-4}$

$= \pm\sqrt{2}i$ and $\pm 2i$

$x^2 = (-2)^2, (-4)^2$

$= 4, 16$

Q: Construct Routh Array and determine the stability of the system represented by the equn

$$S^5 + S^4 + 2S^3 + 2S^2 + 3S + 5 = 0$$

Comment on the location of roots of the equn?

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Solution:-

S^5	1	2	3
S^4	1	2	5
S^3	0	-2	

S^5	1	2	3
S^4	1	2	5
S^3	ε	-2	
S^2	$\frac{2\varepsilon+2}{\varepsilon}$	5	
S^1	$-\frac{(5\varepsilon^2+4\varepsilon+4)}{2\varepsilon+2}$		
S^0	5		

$\varepsilon \to 0$

S^5	1	2	3
S^4	1	2	5
S^3	0	-2	
S^2	∞	5	
S^1	-2		
S^0	5		

$\frac{-4\varepsilon+7}{\varepsilon} - 5\varepsilon$

$\frac{-4\varepsilon+4-5\varepsilon^2}{\varepsilon}$

$\frac{(4\varepsilon+4-5\varepsilon^2)\varepsilon}{\varepsilon(2\varepsilon+2)}$

$\frac{-4\varepsilon^2+4\varepsilon-5\varepsilon^3}{2\varepsilon^2+2\varepsilon}$

$\frac{-4\varepsilon-4-5\varepsilon^2}{2\varepsilon+2}$

$-\frac{(5\varepsilon^2+4\varepsilon+4)}{2\varepsilon+2}$

On observing the elements of first column of Routh Array it is found that there are 2 sign changes. Hence 2 roots are lying on the ~~right~~ right half of S plane

Hence, the System is unstable.

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DEPARTMENT OF MECHANICAL ENGINEERING

Remedial Classes Time table for the period of 17/10/2021 to 03/11/2021

TIME: 4.15PMTO 5.30PM

DATE&DAY	SEMESTER 7		SEMESTER 5		SEMESTER 3	
	SUBJECT	FACULTY	SUBJECT	FACULTY	SUBJECT	FACULTY
17/10 MON	ME 401 –Design of Machine elements					
18/10 TUE			MET307-Machine tools and metrology		MET205-Metallurgy and material science	
19/10 WED	ME403- Advanced Energy Engineering					
20/10 THURS			MET303 Thermal Engineering		MET201 Mechanics of Solids	
25/10 TUE			MET301 Mechanics of Machinery		MET203 Mechanics of Fluids	
26/10 WED	ME405- Refrigeration and Air Conditioning					
27/10 THURS			MET305 Industrial & Systems Engineering		MAT201-Partial differential Equation & Complex Analysis Systems	
31/10 MON	ME 401 –Design of Machine elements					

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1/11 TUE	ME409-Compressible Fluid Flow		MCN301-Disaster Management		HUT200-Professional Ethics	
2/11 WED						
3/11 THURS	IE306- Supply Chain and Logistic Management		HUT300-Industrial Economics & Foreign Trade		MCN 201-Sustainable Engineering	

REMEDIAL CLASS COORDINATOR

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DEPARTMENT OF MECHANICAL ENGINEERING

REMEDIAL TEST TIME TABLE

Date and Day	Faculty Name	Subject with code
02/11/2021	Mr. Jacob Thomas	MET201 Mechanics of solids
03/11/2021	Mr. Arjun Jayaprakash	MET201 Mechanics of fluids
04/11/2021	Mr. Sarang P	MET303 Thermal Engineering
08/11/2021	Mr. Arjun K	MET301 Mechanics of machinery
09/11/2021	Mr. Arun raj	MEt401 Design of machine elements

REMEDIAL COORDINATOR

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DEPARTMENT OF MECHANICAL ENGINEERING

REMEDIAL CLASS DETAILS

Department: MECHANICAL ENGINEERING

Date: 20/10/2021

Venue: S3 Mechanical classroom

Semester: III

Subject : MET201 Mechanics of solids

Faculty : Mr. Jacob Thomas

Topic : Problems on torsion, Mohr circle

Register number of students attended: SNC20ME001, SNC20ME004, SNC20ME005, SNC20ME007, SNC20ME008, SNC20ME010

FACULTY : **REMEDIAL COORDINATOR:**

STUDENT ATTENDED (ANY): **HOD:**

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DEPARTMENT OF MECHANICAL ENGINNERING

MOS QUESTIONS

1. Young's Modulus of elasticity is

(a)Tensile stress / Tensile strain

(b)Shear stress / Shear strain

(c)Tensile stress / Shear strain

(d)Shear stress / Tensile strain

2. The relationship between Young's modulus (E), Bulk modulus (K) and Poisson's ratio (μ) is given by

(a)$E=2K(1-2\mu)$

(b) $E=3K(1-2\mu)$

(c)$E=2K(1-2\mu)$

(d) $E=2K(1-3\mu)$

3.If the principle stresses in a plane stress problem, are 100 MPa and 40 MPa, then the magnitude of the maximum shear stress (MPa) will be

(a) 20

(b) 30

(c) 300

(d)70

4.A two dimensional fluid element rotates like a rigid body. At a point within the element, the pressure is 1 unit. Radius of the Mohr's circle, characterizing the state of stress at the point, is

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(a) 0.5 unit

(b) 0 unit

(c) 1 unit

(d)2 unit

5.For a simply supported beam of span L, loaded with U.D.L. w/m over the whole span, the maximum B.M will be

(a) wL/4

(b) wL2 /8

(c) wL2 /4

(d) WwL2 /2

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MOS ANSWER KEY

1.a

2.b

3.b

4.b

5.c

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Saurag K
Roll NO: 10

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DEPARTMENT OF MECHANICAL ENGINNERING

MOS QUESTIONS

3/5

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