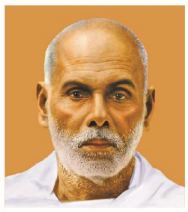
Sree Narayana Guru College
of Engineering & Technology
CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



QUESTION PAPER – LAB EXAMINATION

Name: Arjun Shyjan Roll No:- SNCEO ME001

SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANNUR, KANNUR

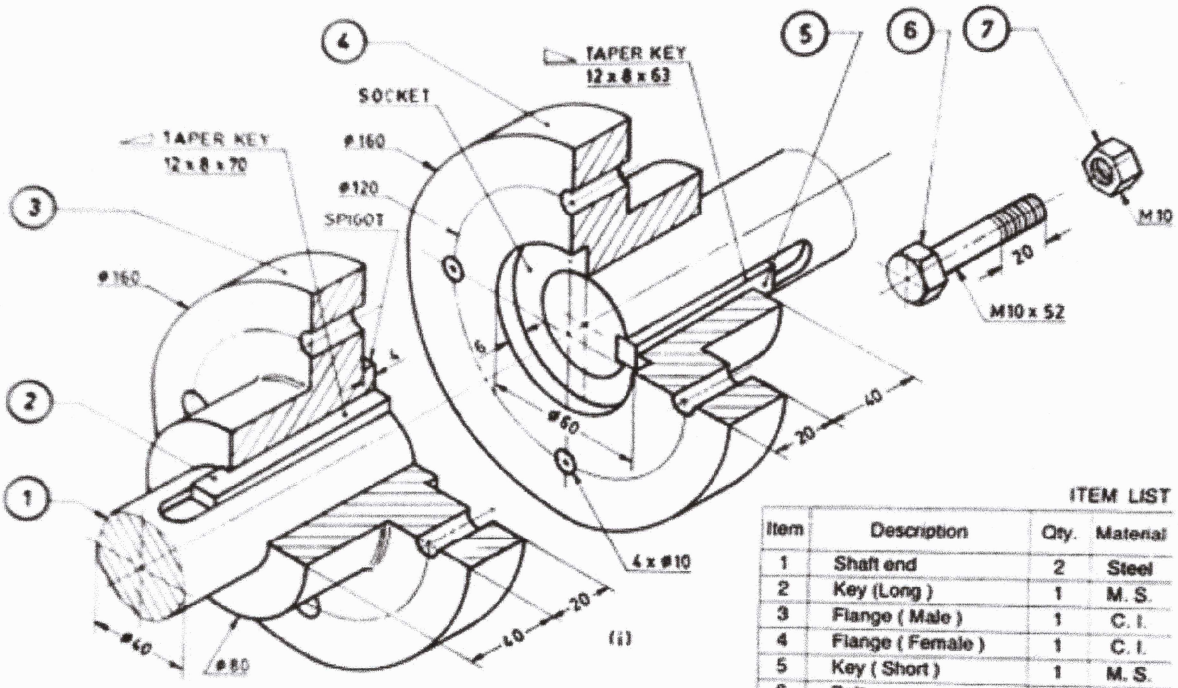
MECHANICAL ENGINEERING DEPARTMENT

Sixth semester B-Tech Degree Examination June 2023

MEL332 COMPUTER AIDED DESIGN AND ANALYSIS

Time : 2.5Hrs

Mark : 25



ITEM LIST

Item	Description	Qty.	Material
1	Shaft end	2	Steel
2	Key (Long)	1	M. S.
3	Flange (Male)	1	C. I.
4	Flange (Female)	1	C. I.
5	Key (Short)	1	M. S.
6	Bolt	4	M. S.
7	Nut	4	M. S.

All dimensions are in mm.

Perform the 3D modeling of all the parts of Flanged coupling and show the assembly of the same

Name: Ashish Ok. Roll No:- 02.

SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANNUR, KANNUR

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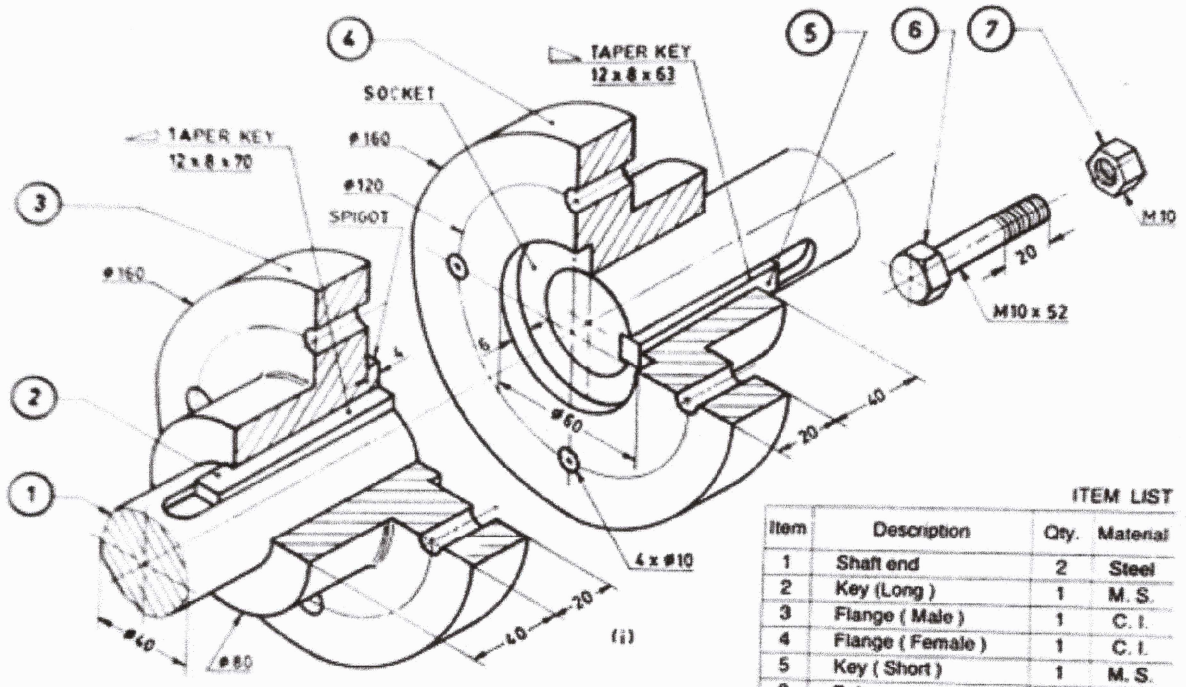

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6	Bolt	4	M. S.
7	Nut	4	M. S.

All dimensions are in mm.

Perform the 3D modeling of all the parts of Flanged coupling and show the assembly of the same

Name: Ashwin John Roll No:- SNC20ME003

SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANNUR, KANNUR

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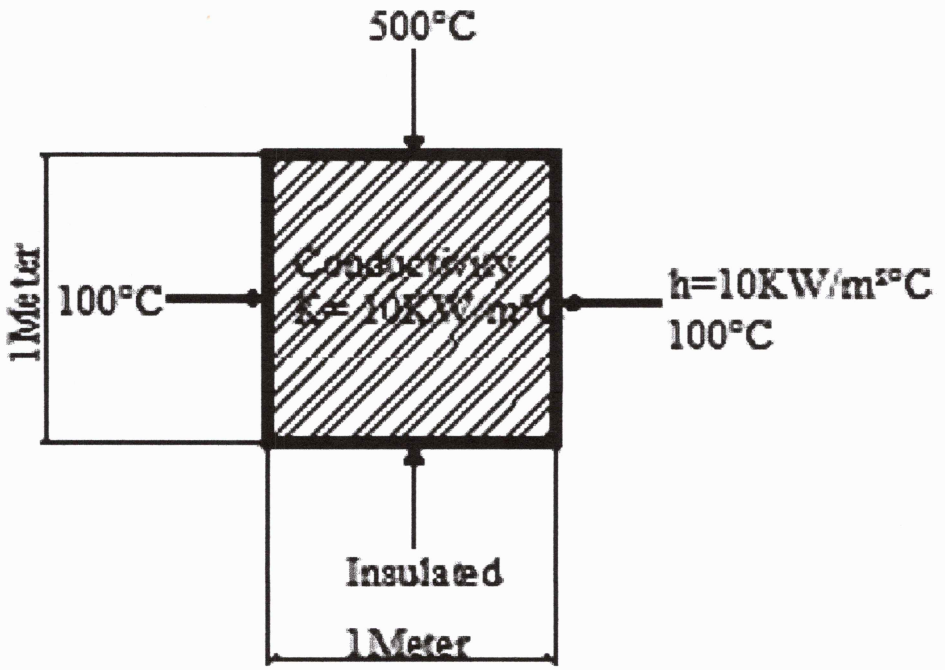

Perform thermal analysis as per the boundary conditions given above and plot results.

Name: Mishal K.N Roll No:- SNIC20ME007

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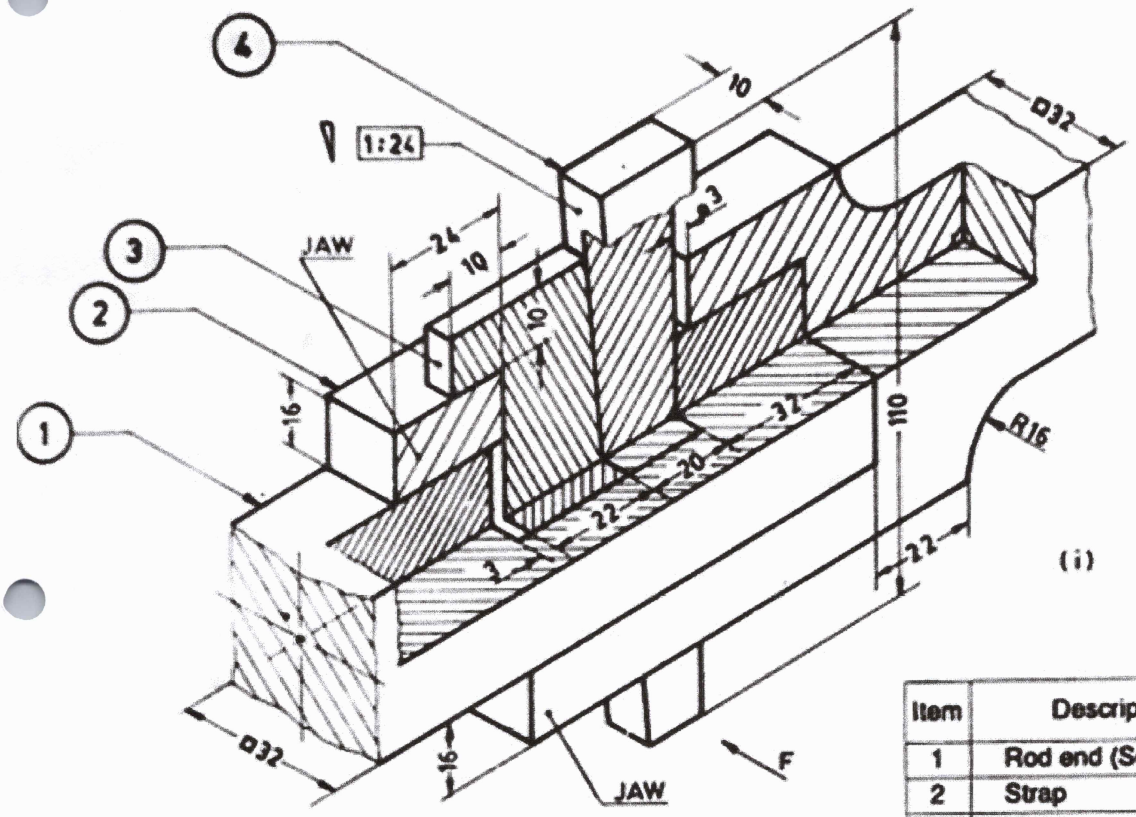

ITEM LIST

Item	Description	Qty.	Material
1	Rod end (Square)	1	M. S.
2	Strap	1	M. S.
3	Gib	1	M. S.
4	Cotter	1	M. S.

All dimensions are in mm.

Make the 3D model of the above all parts and assemble them together to show the Gib and Cotter joint assembly.

Name: Aswin.C.P. Roll No:- 05

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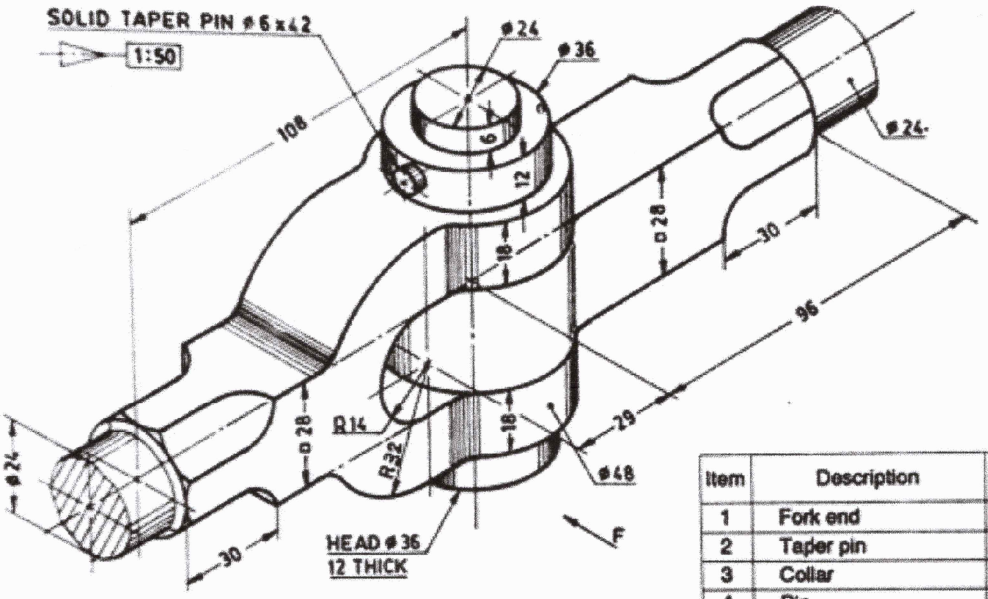

ITEM LIST

Item	Description	Qty.	Material
1	Fork end	1	M. S.
2	Taper pin	1	M. S.
3	Collar	1	M. S.
4	Pin	1	M. S.
5	Eye end	1	M. S.

All dimensions are in mm.

Make the 3D model of the above all parts and assemble them together to show the Knuckle joint assembly.

Name: Theeraj ..... Roll No:- 6 .....

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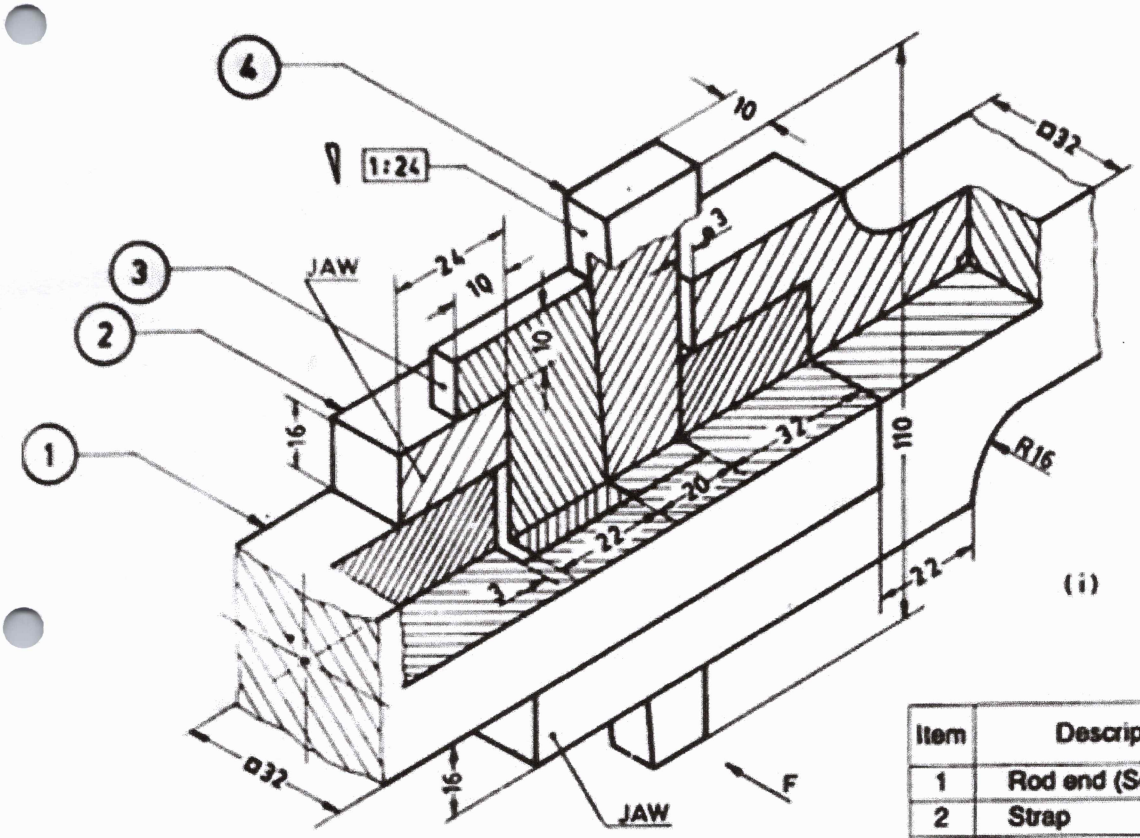

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2	Strap	1	M. S.
3	Gib	1	M. S.
4	Cotter	1	M. S.

All dimensions are in mm.

Make the 3D model of the above all parts and assemble them together to show the Gib and Cotter joint assembly.

Name: Majd.v.v. Roll No:- ....08.....

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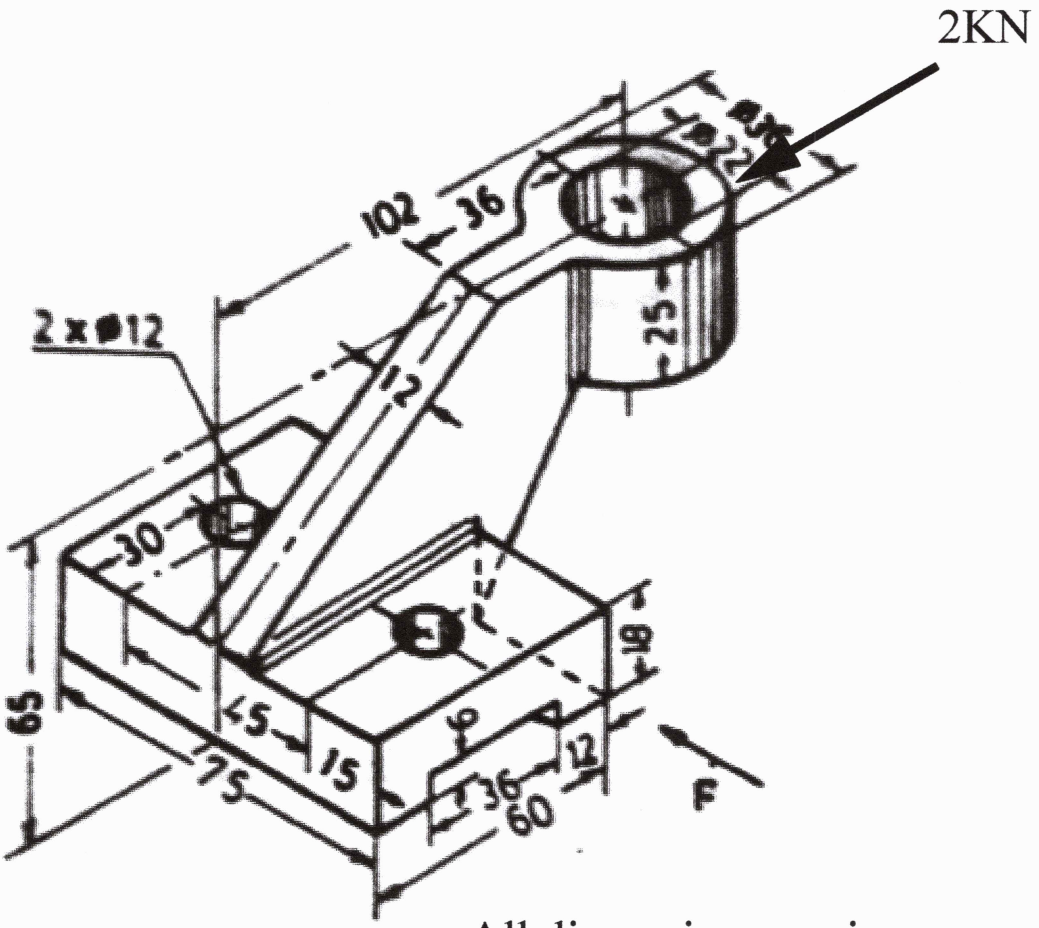

All dimensions are in mm.

Perform the 3D modeling of the above part and show the static analysis by applying load in the direction as shown.

Name: Ishwin Babu Roll No:- SNGZOMEOOZ

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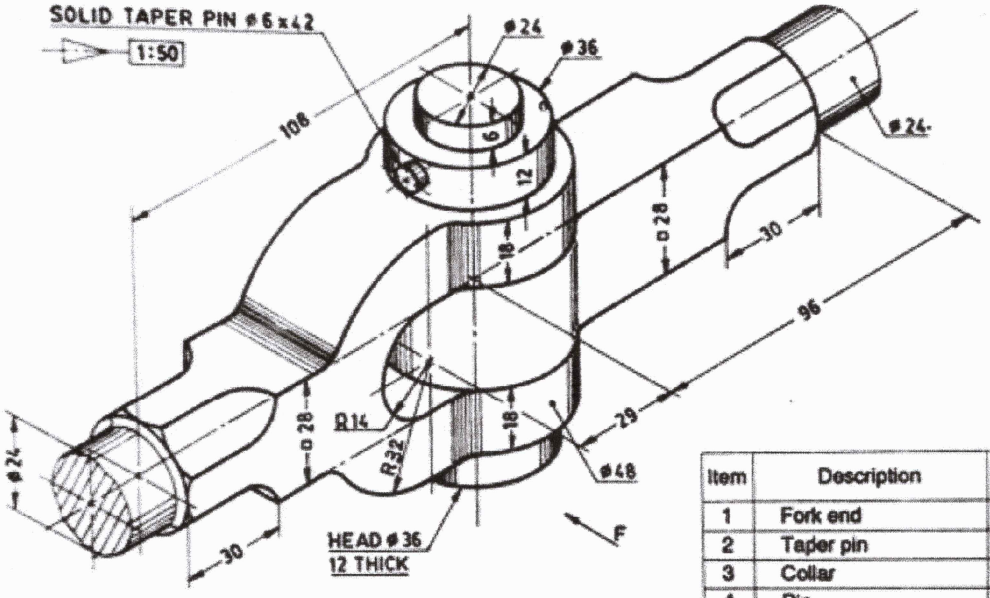

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2	Taper pin	1	M. S.
3	Collar	1	M. S.
4	Pin	1	M. S.
5	Eye end	1	M. S.

All dimensions are in mm.

Make the 3D model of the above all parts and assemble them together to show the Knuckle joint assembly.

Name: Mohammed Shaeel Abdul Sathar Roll No:- SNGCOME009.

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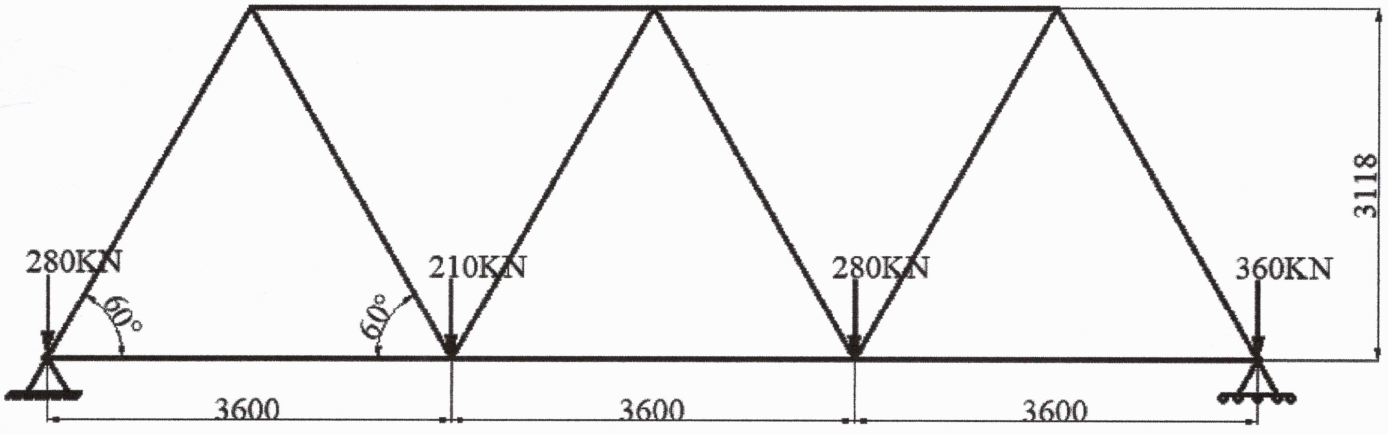

All dimensions are in mm.

Perform structural analysis of 2D Truss as the Truss work shown above and plot results.

Name: Sourag . K Roll No:- 10

SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANNUR, KANNUR

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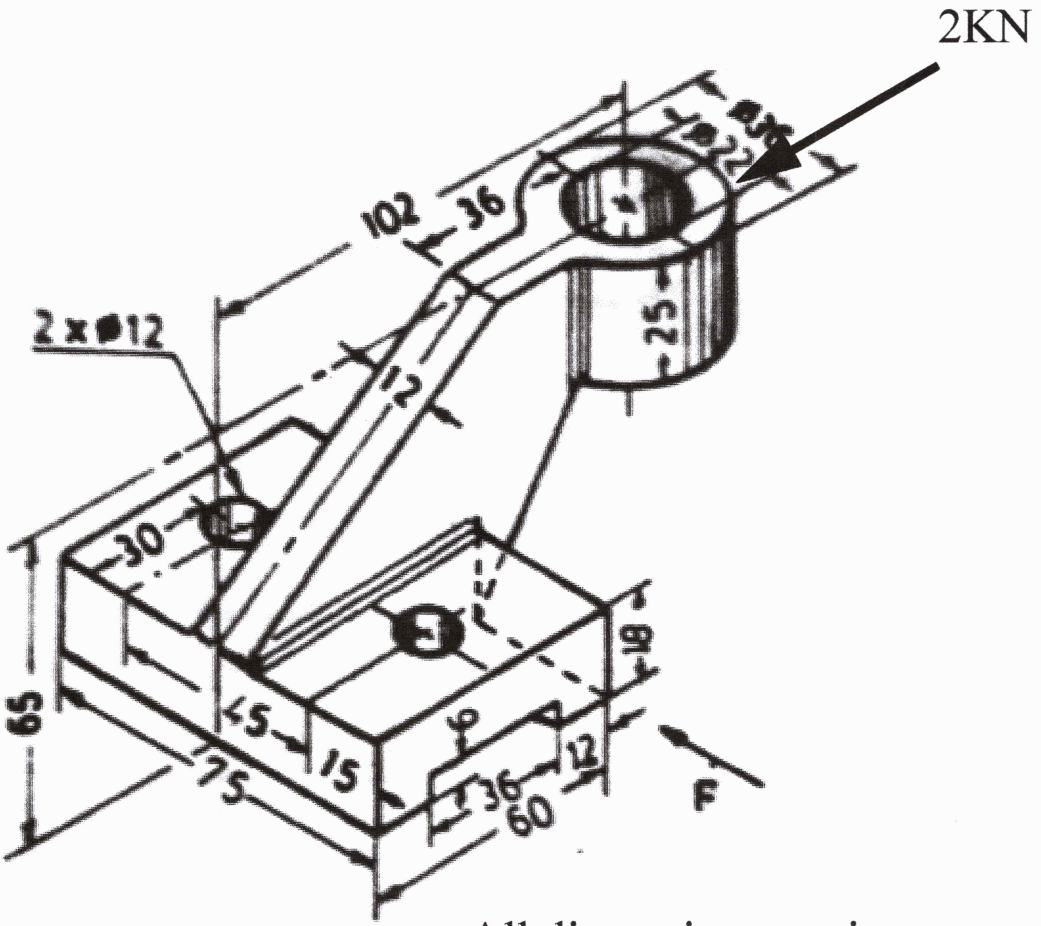
Time : 2.5Hrs
Mark : 25



All dimensions are in mm.

Perform the 3D modeling of the above part and show the static analysis by applying load in the direction as shown.

	SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, (AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY) **INTERNAL LAB EXAMINATION**	**EE**

Programme& Branch	:	**BTECH – ELECTRICAL AND ELECTRONICS ENGINEERING**		
Course Code & Name	:	**EEL331**-MICROPROCESSORS AND MICROCONTROLLERS		
Semester	:	**05**		
Date of Exam	:	**09/11/2022**		
Maximum Marks	:	**25**		
Question- 1		**Write an ALP to perform following operation using 8085** **(A+B)/2**	**CO** **3**	**Level** **3**

	SREE NARAYANA GURU COLLEGE OF ENGINEERING AND TECHNOLOGY, PAYYANUR (AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY) **INTERNAL LAB EXAMINATION** **SCHEME OF EVALUATION**	**EE**

Programme& Branch	:	**BTECH – ELECTRICAL AND ELECTRONICS ENGINEERING**
Course Code & Name	:	**EEL331**-MICROPROCESSORS AND MICROCONTROLLERS
Semester	:	**05**
Date of Issue	:	**09/11/2022**
Maximum Marks	:	**25**

Question- 1

	Marks	*CO*	*Level*
1. Program and Procedure	**5**	**3**	**3**
2. Performance	**5**		
3. Viva	**5**		
4. Record	**5**		
5. Result	**5**		

HOD(EEE)

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

	SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY (AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY) **INTERNAL LAB EXAMINATION**	**EE**

Programme& Branch	:	**BTECH – ELECTRICAL AND ELECTRONICS ENGINEERING**		
Course Code & Name	:	**EEL331**-MICROPROCESSORS AND MICROCONTROLLERS		
Semester	:	**05**		
Date of Issue	:	**09/11/2022**		
Maximum Marks	:	**25**		
Question- 3		**Write and ALP to find squre of a number using 8051**	**CO** **1**	**Level** **3**

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Programme& Branch	:	**BTECH – ELECTRICAL AND ELECTRONICS ENGINEERING**
Course Code & Name	:	**EEL331**-MICROPROCESSORS AND MICROCONTROLLERS
Semester	:	**05**
Date of Issue	:	**09/11/2022**
Maximum Marks	:	**25**

Question- 3

	Marks	*CO*	*Level*
1. Circuit and Procedure	**10**	**1**	**3**
2. Performance and Calculation	**10**		
3. Viva	**5**		
4. record	**5**		
5. Result	**5**		

HOD(EEE)

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Programme& Branch	:	**BTECH – ELECTRICAL AND ELECTRONICS ENGINEERING**		
Course Code & Name	:	**EEL331**-MICROPROCESSORS AND MICROCONTROLLERS		
Semester	:	**05**		
Date of Issue	:	**09/11/2022**		
Maximum Marks	:	**25**		
Question- 2		**Write an ALP to perform following operation using 8085** **(A+B)/2**	**CO** **1**	**Level** **3**

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Programme& Branch	:	**BTECH – ELECTRICAL AND ELECTRONICS ENGINEERING**
Course Code & Name	:	**EEL331**-MICROPROCESSORS AND MICROCONTROLLERS
Semester	:	**05**
Date of Issue	:	**09/11/2022**
Maximum Marks	:	**25**

Question- 2

	Marks	*CO*	*Level*
1. Circuit and Procedure	**10**	**1**	**3**
2. Performance and Calculation	**10**		
3. Viva	**5**		
4. record	**5**		
5. Result	**5**		

HOD/EEE

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KANNUR

SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY,

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

B.TECH THIRD SEMESTER INTERNAL LAB EXAMINATION – DECEMBER 2022 (2019 SCHEME)

CSL203 OBJECT ORIENTED PROGRAMMING LAB(IN JAVA)

VENUE: NETWORKING LAB, SNGCET **DATE: 21/12/2022 & 22/12/2022**

QUESTIONS

1. Write a java programs to find the frequency of a given character in a string.
2. Write a Java program to multiply two given matrices.
3. Write a Java program which creates a class named; Employee having the following members: Name, Age, Phone number, Address, Salary. It also has a method named; print Salary ( ); which prints the salary of the Employee. Two classes Officer and Manager inherit the Employee class. The Officer and Manager classes have data member's specialization and department respectively. Now, assign name, age, phone number, address and salary to an officer and a manager by making an object of both of these classes and print the same.
4. Write a java program to create an abstract class named Shape that contains an empty method named numberOfSides ( ). Provide three classes named Rectangle, Triangle and Hexagon such that each one of the classes extends the class Shape. Each one of the classes contains only the method numberOfSides ( ) that shows the number of sides in the given geometrical structures.
5. Write a Java program that read from a file and write to file by handling all file related exceptions.
6. Write a Java program that shows the usage of try, catch, throws and finally.
7. Write a Java program that reads a line of integers, and then displays each integer, and the sum of all the integers (Use String Tokenizer class of java.util).
8. Write a Java program that shows thread synchronization.
9. Write a Java program that works as a simple calculator. Arrange Buttons for digits and the + - * % operations properly. Add a text field to display the result. Handle any possible exceptions like divide by zero. Use Java Swing.

Dr. LEENA A V
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PAYYANUR, KANNUR

10. Write a Java program that simulates a traffic light. The program lets the user select one of three lights: red, yellow, or green. When a radio button is selected, the light is turned on, and only one light can be on at a time. No light is on when the program starts.
11. Write a Java program for the following:
    1. Create a doubly linked list of elements.
    2. Delete a given element from the above list.
    3. Display the contents of the list after deletion.
12. Write a Java program that implements Quick sort algorithm for sorting a list of names in ascending order.

Vijina Vijayan

Name and Signature of External Examiner

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