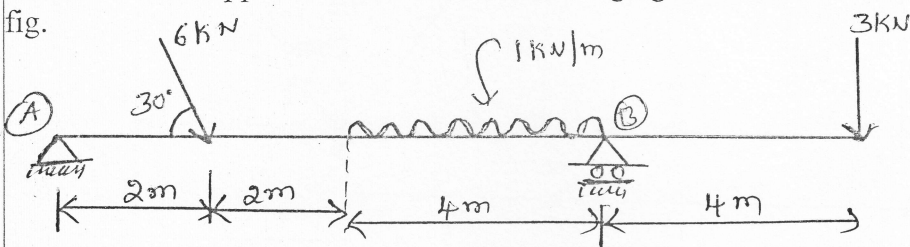
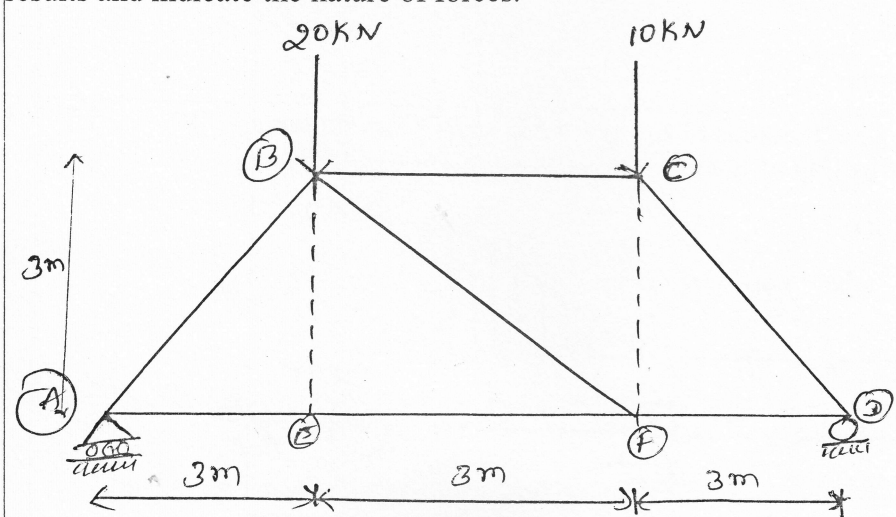


CONTINUOUS INTERNAL EVALUATION- 2

Dept: CV	Sem / Div: 1 st A, B & C	Sub: Elements of Civil Engineering and Mechanics.	S Code: 18CIV 14
Date: 26-11-2019	Time: 9.30 – 11.00 am	Max Marks: 50	Elective: N
Note: Answer any 2 full questions, choosing one full question from each part.			

Q N	Questions	Marks	RBT	COs
PART A				
1 a	With sketch explain different types of supports and mark reaction line.	7	L2	CO3
b	Determine the support reaction for the overhanging beam as shown in fig. 	10	L3	CO3
c	What are the types of loads and beams ? Explain briefly with neat sketches.	8	L2	CO3
OR				
2 a	List the steps followed in the analysis of truss by the method of section.	5	L2	CO3
b	Analyze the truss shown in fig by the method of joints, tabulate the results and indicate the nature of forces. 	15	L3	CO3
c	What are the assumptions in the analysis of statically determinate truss.	5	L2	CO3

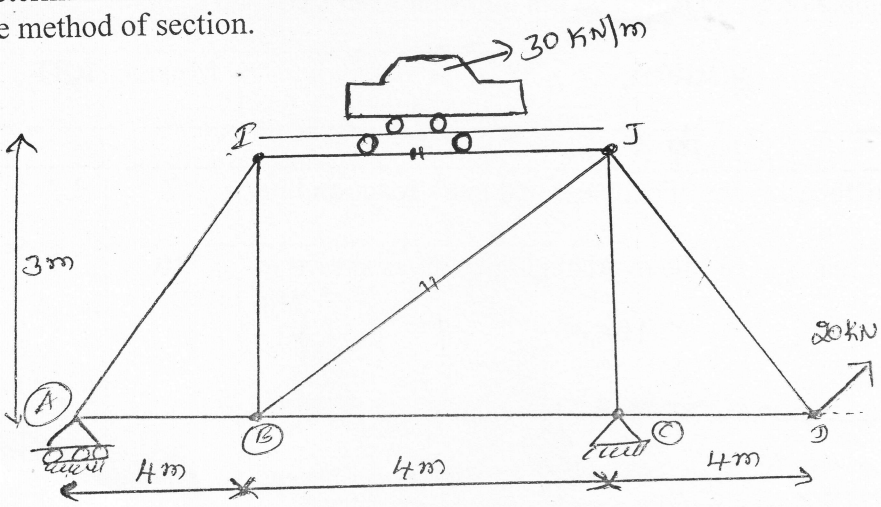
Yogesh D S

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CONTINUOUS INTERNAL EVALUATION- 2

PART B

3	a) List the steps followed in the analysis of truss by the method of joints.	5	L2	CO3,4
	b) Determine the forces in all the members of the truss shown in fig by the method of section.	15	L3	CO3,4

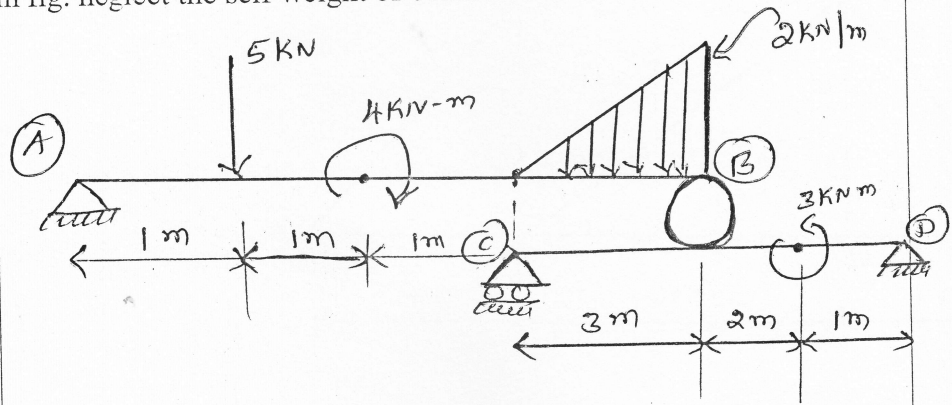


	c) Derive the expression for the centroid of triangle.	5	L3	CO4
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OR

4	a) Derive the expression for the centroid of rectangle.	5	L3	CO4
	b) Define the following terms, <ul style="list-style-type: none"> • Centroid • Centre of Gravity • Axes of Reference • Centroidal axis • Symmetrical axis 	10	L2	CO4

	c) Determine the reactions at the ends of the beam AB and CD as shown in fig. neglect the self weight of beam.	10	L3	CO4
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Yogesh D S

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