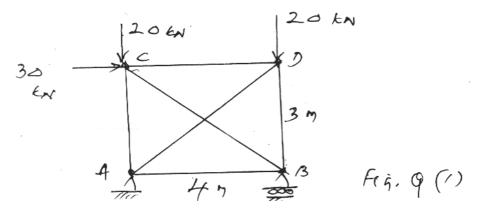
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	P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belgaum) Fifth Semester, B.E Civil Engineering									
	Semester End Examination; Dec 2015									
Analysis of Structures - II										
Time: 3 hrs	;					Mc	ıx. N	1ark	s: 1	00

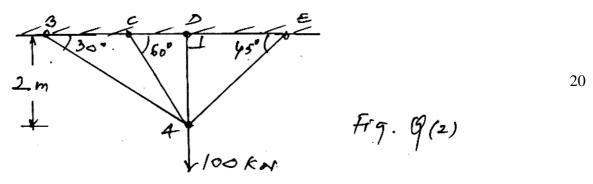
Note: i) Answer *FIVE* full questions, selecting *ONE* full question from each unit. *ii*) Assume missing data suitably.

UNIT - I

1. Find the forces in the members of the plane truss shown in Fig. Q(1). Cross-sectional area of retreat members is 3000 mm^2 and others 2500 mm^2 . Take; E = 200 GPa.

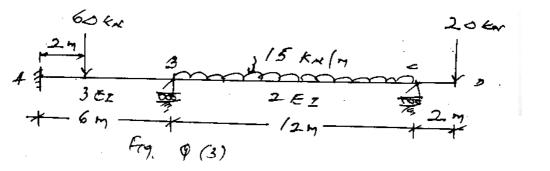


2. Find the forces in the members of the plane truss showing in Fig. Q(2). AE = Constant.



UNIT - II

3. Analyse the continuous beam shown in Fig. Q(3) by slope deflection method. Draw BMD, SFD and elastic curve.



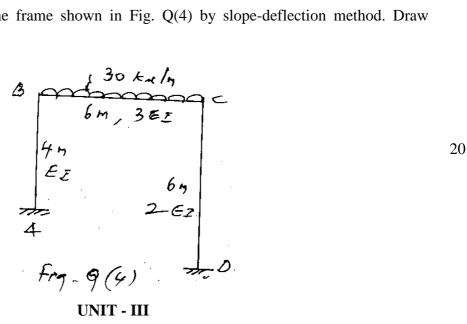
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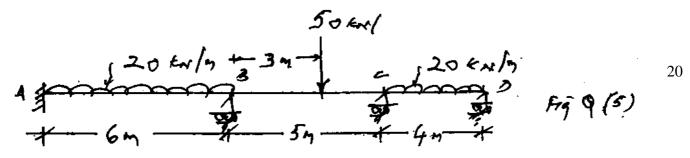
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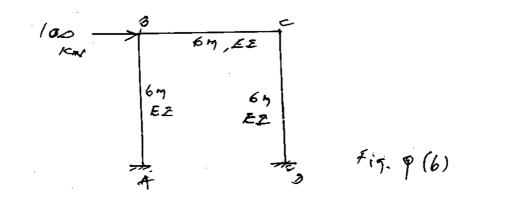
4. Analyse the rigid jointed plane frame shown in Fig. Q(4) by slope-deflection method. Draw BMD.



5. Analyse the continuous beam shown in Fig. Q(5) by moment distribution method. Support B settles by 10 mm. Draw BMD and Elastic curve Take; E = 200 GPa and $I = 1.20 \times 10^{-4}$ m⁴.



6. Analyse the rigid jointed plane frame shown in Fig. Q(6) by moment distribution method. Draw BMD and EC.



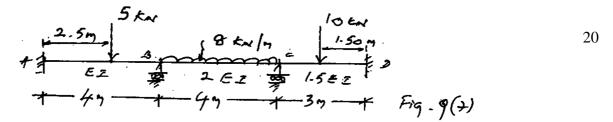
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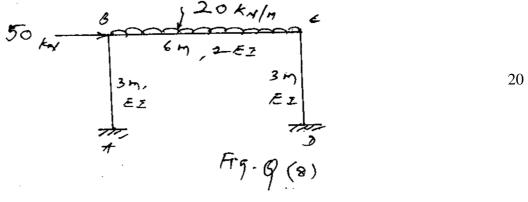
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UNIT - IV

7. Analyse continuous beam shown in Fig. Q(7) by Kani's method. EI = constant. Draw BMD and SFD

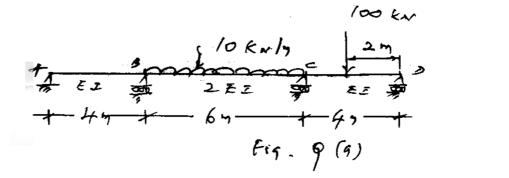


8. Analyse the rigid jointed frame shown in Fig. Q8 by Kani's method. Draw BMD and EC.

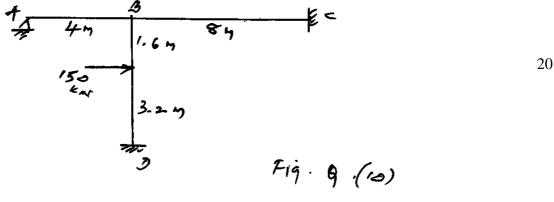


UNIT - V

 Analyse the continuous beam shown in Fig. Q(9) by flexibility matrix method, system approach. Draw BMD and SFD.



10 Analyse the rigid jointed plane frame shown in Fig. Q(10) by stiffness matrix method, system approach. Draw BMD. EI = constant.



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