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09ENG4.5

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Fourth Semester B.Arch. Degree Examination, Dec.2014/Jan.2015
Structures - IV

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 Analyze the continuous beam shown in Fig. Q1. Draw BMD and SFD. (20 Marks)

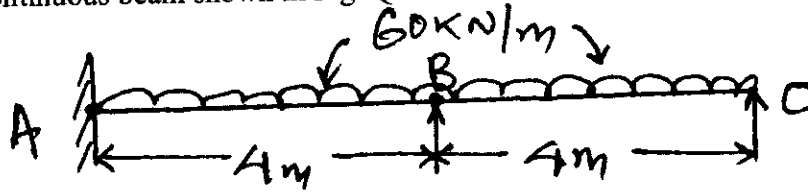


Fig. Q1

- 2 Analyze the fixed beam shown in Fig. Q2. Draw BMD and SFD. (20 Marks)

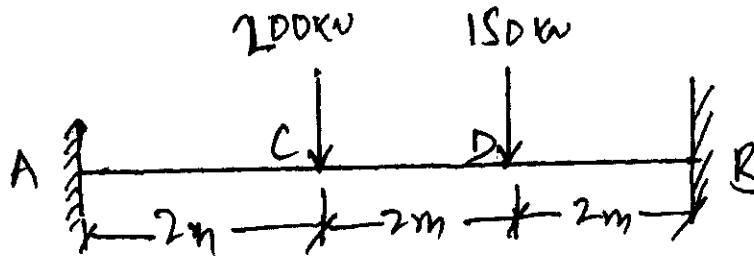


Fig. Q2

- 3 Analyze the beam shown in Fig. Q3. Draw BMD and SFD. (20 Marks)

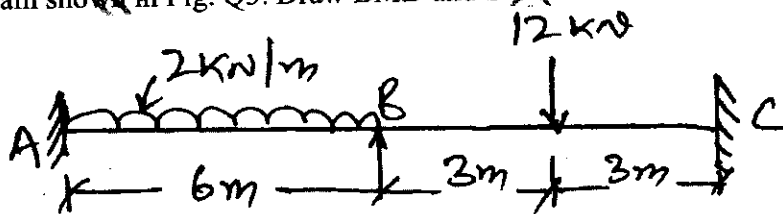


Fig. Q3

- 4 Analyze the continuous beam shown in Fig. Q4 using Clapeyron's theorem of three moments and draw BMD and SFD. (20 Marks)

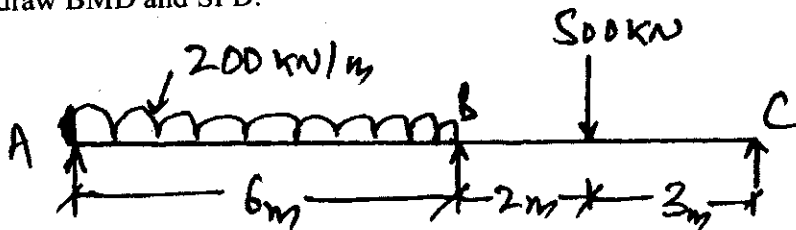


Fig. Q4

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

- 5 Analyze the continuous beam shown in Fig. Q5 using theorem of three moments. Draw BMD and SFD. (20 Marks)

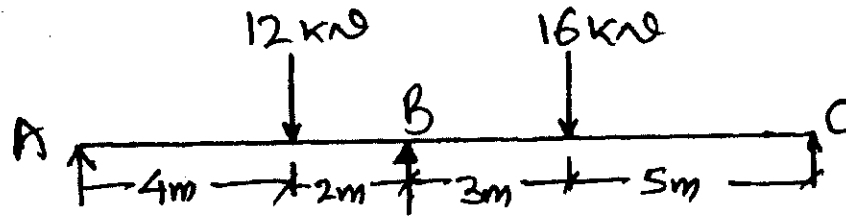


Fig. Q5

- 6 Analyze the continuous beam shown in Fig. Q6 by moment distribution method. Draw BMD. (20 Marks)

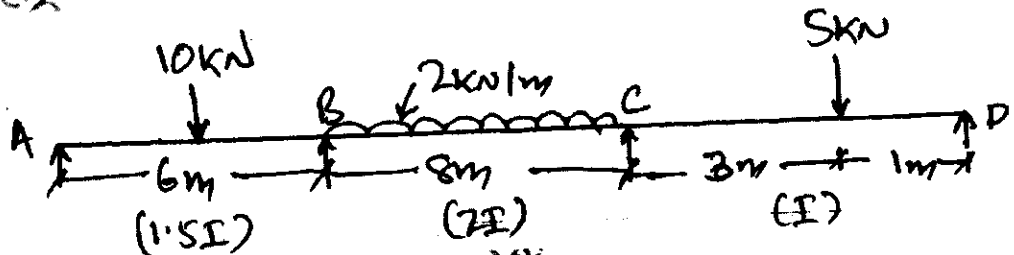


Fig. Q6

- 7 Analyze the continuous beam shown in Fig. Q7 by moment distribution method. Draw BMD. (20 Marks)

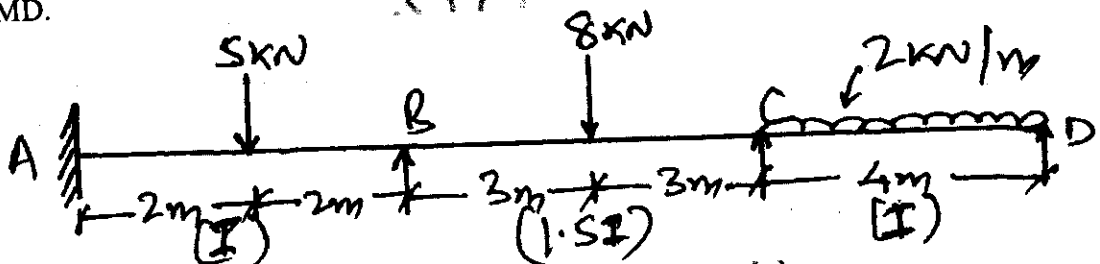


Fig. Q7

- 8 Analyze the portal frame shown in Fig. Q8 by moment distribution method. Draw BMD. (20 Marks)

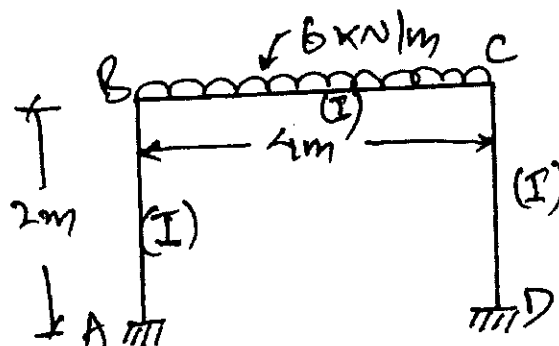


Fig. Q8
