

Fourth Semester B.Arch. Degree Examination, June/July 2011

Structures - IV

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer any FIVE full questions.
2. Missing data may be assumed suitably.

- 1 Analyze the Propped cantilever beam shown in Fig. Q1 and draw SFD and BMD.

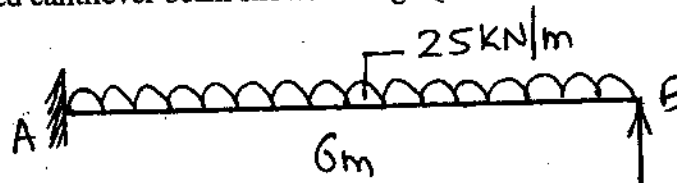


Fig. Q1

(20 Marks)

- 2 Analyze the Propped cantilever beam shown in Fig. Q2 and draw SFD and BMD.

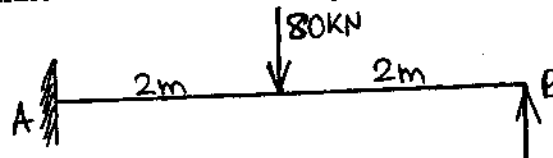


Fig. Q2

(20 Marks)

- 3 Analyze the fixed beam shown in Fig. Q3 and draw SFD and BMD.

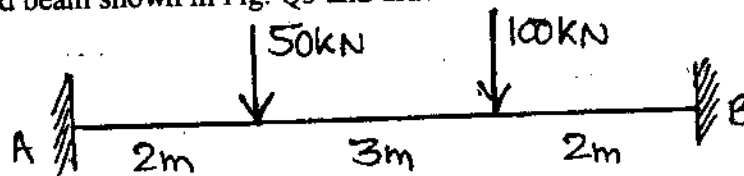


Fig. Q3

(20 Marks)

- 4 Analyze the continuous beam shown in Fig. Q4 using Clapeyron's theorem of three Moments, and draw only BMD.

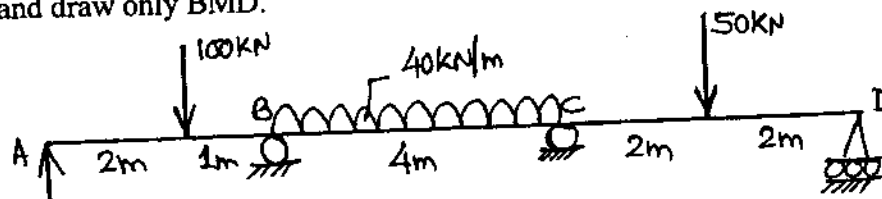
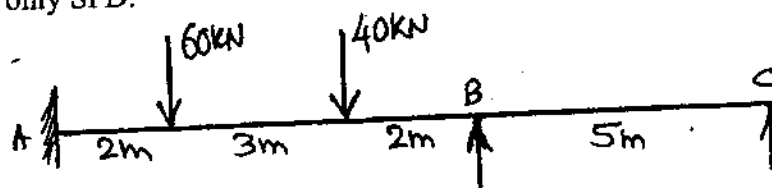


Fig. Q4

(20 Marks)

- 5 Analyze the continuous beam shown in the Fig. Q5. Using Clapeyron's three moment's theorem. Draw only SFD.

Fig. Q5
1 of 2

(20 Marks)

- 6 Analyze the continuous beam shown in Fig. Q6 by moment distribution method and draw only BMD.

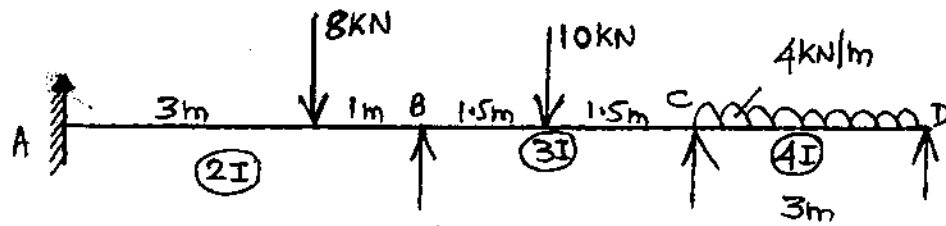


Fig. Q6

(20 Marks)

- 7 Analyze the frame shown in Fig. Q7 by moment distribution method and draw only BMD.

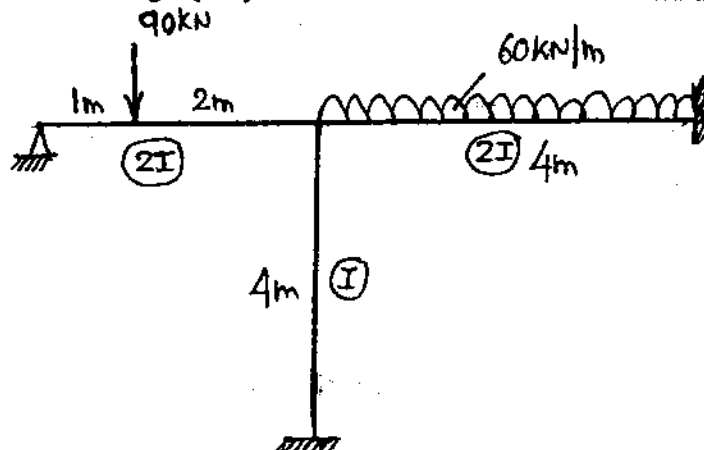


Fig. Q7

(20 Marks)

- 8 Analyze the frame shown in Fig. Q8 by moment distribution method and draw BMD.

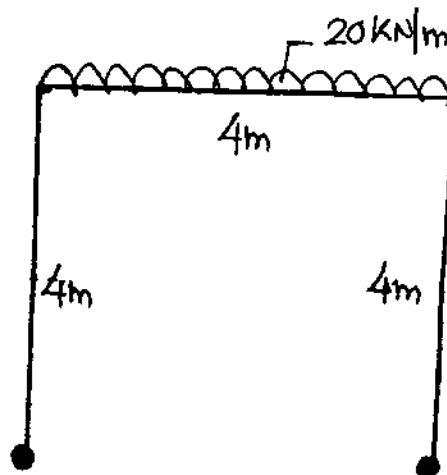


Fig. Q7

(20 Marks)
