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09ENG4.5

Fourth Semester B.Arch. Degree Examination, June/July 2018
Structures – IV

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer any FIVE full questions.

- 1 Analyse the propped Cantilever shown in Fig Q1 and draw SFD and BMD. (20 Marks)

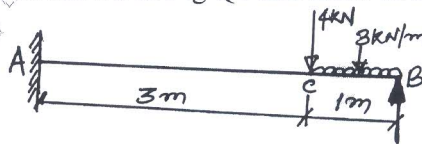


Fig Q1

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

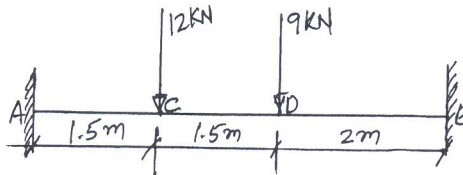


Fig Q2

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

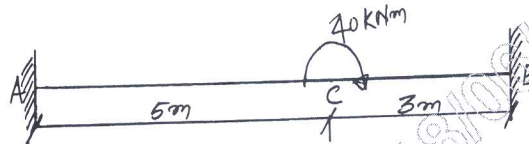


Fig Q3

- 4 Analyse the continuous beam shown in Fig Q4 by Clapeyron's theorem of three moments and draw SFD and BMD. EI is constant. (20 Marks)

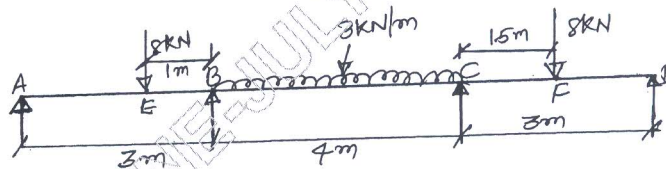


Fig Q4

- 5 Analyse the continuous beam shown in Fig Q5 by three moment equation and draw SFD and BMD. (20 Marks)

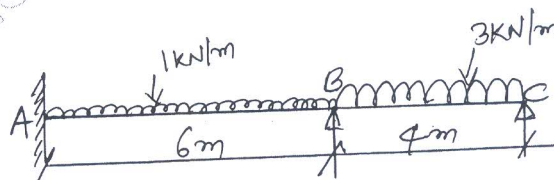


Fig Q5

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.

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

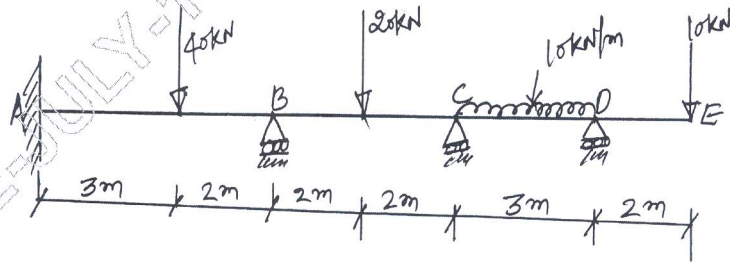


Fig Q6

- 7 Analyse the portal frame shown in Fig Q7 moment distribution method and draw BMD. (20 Marks)

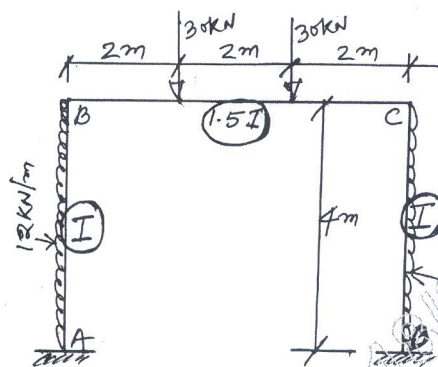


Fig Q7

(20 Marks)

- 8 Analyse the continuous beam shown in Fig Q8 by moment distribution method and draw SFD. (20 Marks)

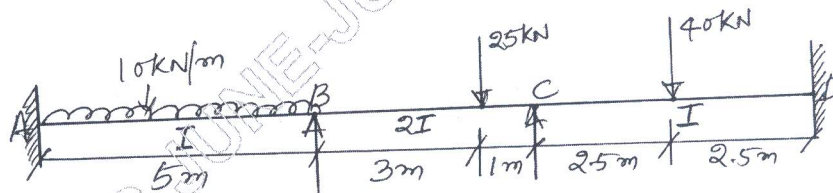


Fig Q8
