Student Exam No.

Ganpat University

B. Tech. Regular Examination Nov/Dec 2013

5th Semester Civil Engineering

2CI501 Structural Analysis-II

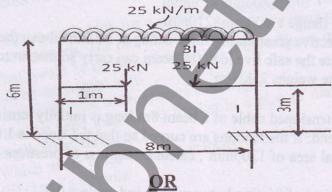
Instructions: -

1

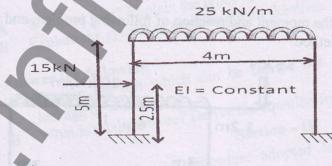
- (1) Answer to the two sections must be written in separate answer books.
- (2) Figures to the right indicate full marks.
- (3) Assume suitable data if required.

<u>Section – I</u>

A portal frame MNOP fixed at both end (M and P) as shown in figure. Solve the frame 12 by SDM and plot SFD and BMD.



1 A portal frame MNOP fixed at both end (M and P) as shown in figure. Solve the frame 12 by SDM and plot SFD and BMD.



2

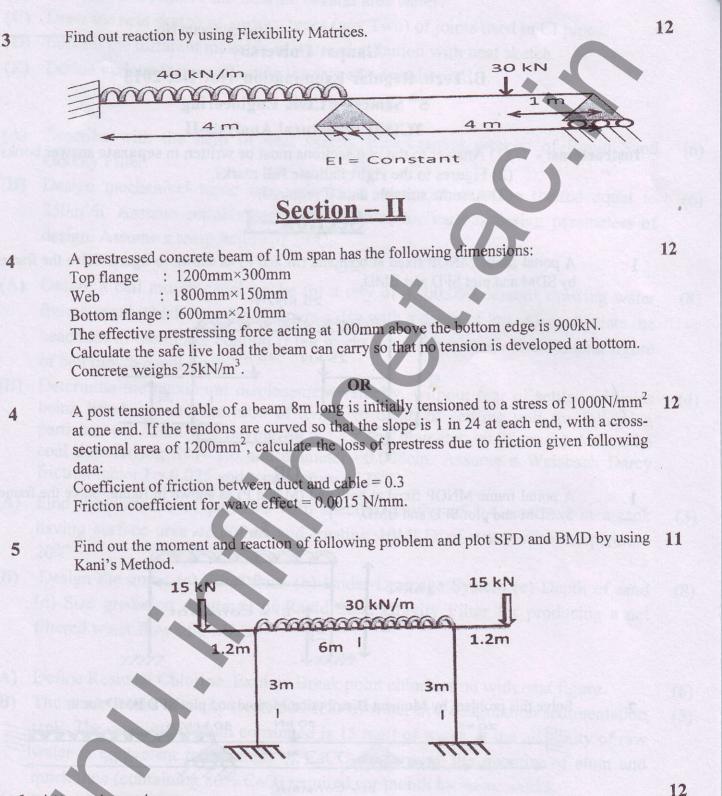
2

Solve this problem by Moment Distribution Method and plot SFD BMD for it.

EI = Constant OR Solve this problem by Moment Distribution Method and plot SFD BMD for it. 11 45 kN 31 5 m 6 m 6 m 2.5 m 3.5 m 6 m 6 m 3.5 m3

11

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6 Attempt any two:

- (A) Compare advantages and disadvantages of prestressed concrete versus reinforced concrete.
- (B) Explain about pressure line in prestressed concrete beam.
- (C) Give the Difference between Kani's Method and Moment Distribution Method.

End of Paper