

Printed Pages : 3



NAR-303

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 181315

Roll No.

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B. Arch.

(SEM. III) (ODD SEM.) THEORY
EXAMINATION, 2014-15
ARCHITECTURE STRUCTURES - III

Time : 3 Hours]

[Total Marks : 50

- Note :**
- (1) Attempt any **five** questions.
 - (2) Assume any missing data.

- 1 (a) Discuss various types of supports and reactions on the support in continuous beams and portal frames. **5**
- (b) Define the degree of Redundancy. **5**
- 2 Discuss 3M equations with diagram, defining all variables including sinking of supports. **10**

- 3 Analyse the portal frame given in fig.1. Using slope deflection method. 10

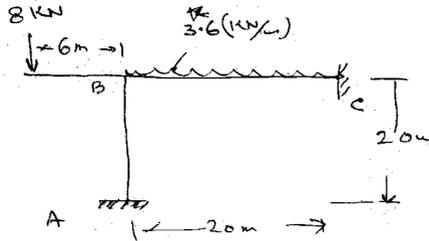


Fig.1

- 4 Analyse the beam shown in fig.2 using 3M equation and draw B.M. and SF diagram. 10

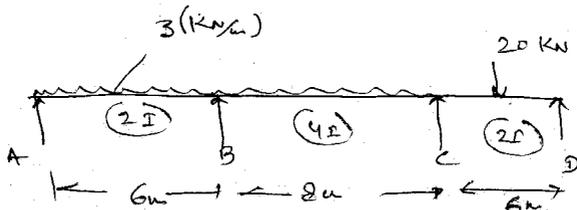


Fig.2

- 5 Determine the reaction at C given in fig. 3, using consistent deformation method. 10

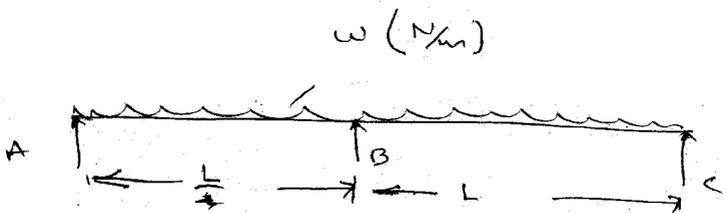


Fig.3

- 6 Analyse the beam given in fig. 4, using moment distribution method and draw B.M. and SF. 10

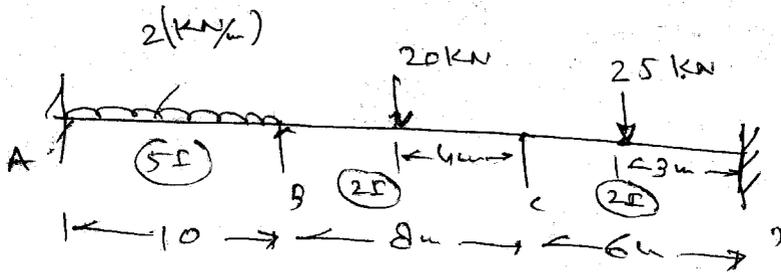


Fig.4