



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

PAPER ID : 181203

Roll No.

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B. Arch.

(SEM. II) THEORY EXAMINATION, 2014-15
ARCHITECTURAL STRUCTURES - II

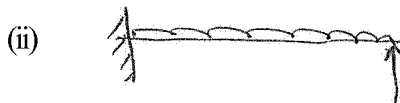
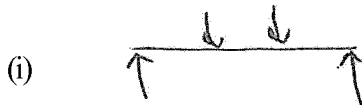
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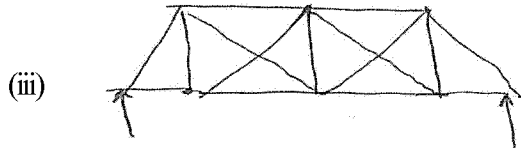
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Note :

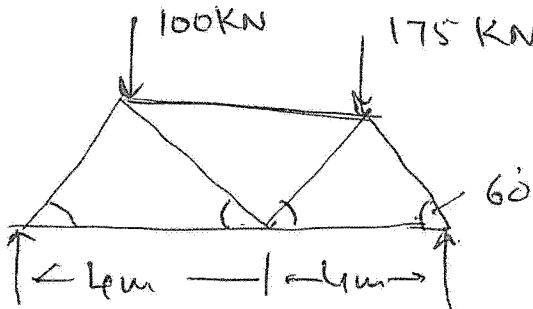
- (i) Attempt any five questions.
- (ii) Assume any missing data.
- (iii) All Questions carry equal marks.

- 1 (a) Define determinate and indeterminate truss structure with examples.
- (b) Determine degree of Redundancy in the following structures.



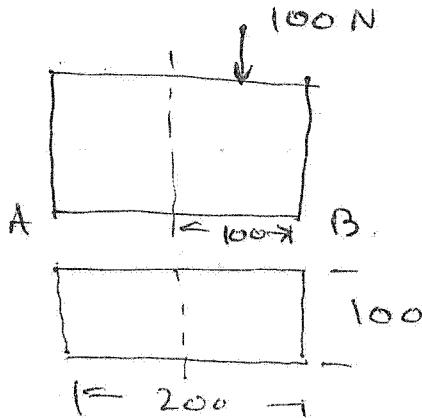


- 2 Determine the forces in the truss given below by analytical or graphical method.



- 3 Determine the shear stress distribution in a beam of rectangular section with width b and depth d for shear force V .
- 4 Determine the deflection equation for beam for a bending moment M , and deflection y and beam property EI .

- 5 Determine the deflection of beam (S.S.) of span L and UDL W by double integration.
- 6 (a) Define the stresses in a column base for direct and bending loads.
(b) Calculate stresses at A and B for the column shown below.



- 7 Determine the critical load or buckling load in a column pinned at both ends, of length L and column property EI . Also define slenderness ratio.
