(Following Paper ID and Roll No. to be filled in your	
Answer Books)	
aper ID : 181203	Roll No.

B. Arch.

Theory Examination (Semester-II) 2015-16

ARCHITECTURAL STRUCTURES-II

Time : 3 Hours

Max. Marks : 100

- Note : 1 Attempt any five questions. 1 All questions carry equal Marks. 1 Draw neat diagram. 1 Assume any missing data.
- 1. (a) Explain Bow's Notation of forces.
 - (b) Determine the Reactions R_A and R_B in the bean show below using graphical method.



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2. Determine the Forces in the truss shown below. Use Analytical or graphical method.



- 3. Determine the shear stress distribution for the rectangular beam cross section for a shear force V.
- 4. Determine the deflection in a contilever shown below at point B.



5. Determine the deflection under the load W in the S. S. beam shown below using Macaulay's method of Double Integration.



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 A mosonary pier 3m × 4 m supports a vertical load of 60 kN as show in fig. below. Find the stresses at the corners of the pier.

e = 1.2 w

P = 60 kN

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7. Determine the Buckling load on a column fixed at both ends.



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