



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

**PAPER ID : 181207**

Roll No.

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## **B. ARCH.**

(SEM. II) THEORY EXAMINATION, 2014-15  
**CONSTRUCTION & MATERIALS - II**

Time : 3 Hours]

[Total Marks : 50

- Note :**
- (i) Answer ALL questions.
  - (ii) Draw neat sketches with proper labeling.
  - (iii) Use appropriate scale for drawings.
  - (iv) Individual observations and understanding will be appreciated.

- 1 Draw wooden ledged, braced and battened door **18**  
in an opening of 900mm x 2100mm in a 230mm brick wall with one joinery detail in isometric. Draw its plan, elevation and section to a scale of 1:10.

**OR**

- 1 Draw a semi-circular arch in a 230 mm brick wall, **18**  
with a span of 1800 mm and the height of the springing line from the floor is 2000mm and labels its various parts on it. (1:20).

- 2 Write illustrated notes on any Two of the following : 8
- (a) Lancet Arch
  - (b) Corbelling
  - (c) Types of Coping.
- 3 What are the various merits of "Rat Trap Bond" ? 8  
Draw plan of two successive courses of 'Rat Trap Bond'  
at Cross-junction.
- 4 Attempt any two of the following : 8
- (a) Seasoning of timber
  - (b) Dove tail joint
  - (c) Vertical damp proofing.
- 5 Discuss any two of the following : 8
- (a) Reinforce Cement Concrete workability
  - (b) Reinforce Brick work in Walling
  - (c) Brick Jaali in residences.
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