



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

**PAPER ID : 181207**

Roll No.

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**B.Arch. (Semester-II)****THEORY EXAMINATION 2015****CONSTRUCTION & MATERIALS - II****[CARRY OVER]***Time : 3 Hours]**[Total Marks : 50*

**Note:** Question Paper consists of Two Sections. Attempt all Sections. Select suitable scale for drawing works. Stationery supplied: One Cartridge sheet only. Use both faces.

**SECTION – A****Note:** Attempt any two questions.

(2 × 10 = 20)

1. Write short notes on the following:
  - a) Use of Reinforced brickwork in buildings
  - b) Properties of Asphalt as DPC material

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(1)

[Contd...

- c) Characteristics of Timber used for structural works in buildings.

2. Explain the need of Preservation of timber in building works and elaborate any two types of seasoning methods for timber used in building works.
3. Explain the mixing process of cement concrete for Reinforced Cement Concrete (RCC) works in buildings and write the curing process of RCC columns and slabs in building works.

**SECTION – B**

**Note:** Question no. 4 is compulsory. Attempt any ONE question from the rest. (2×15 = 30)

4. Draw wooden ledged and battened door in an opening of 1200mm 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. (15)
5. Draw a segmental arch in a 230 mm brick wall, with a span of 1500 mm and the height of the springing line from the floor is 2400 mm and labels its various parts on it. (1:20). (15)
6. What are the advantages of "Rat Trap Bond"? Draw plan of two successive courses of 'Rat Trap Bond' at "L" junction. (15)

—X—

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(2)

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