

Printed Pages : 2



AR-102

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

**PAPER ID : 181103**

Roll No.

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**B. Arch.**(SEM. I) (ODD SEM.) THEORY  
EXAMINATION, 2014-15**CONSTRUCTION & MATERIALS - I**

Time : 3 Hours]

[Total Marks : 50

- Note :**
- (1) Question Paper consists of Two Sections
  - (2) Attempt all Sections.
  - (3) Select suitable scale for drawing works
  - (4) Stationery supplied: One Cartridge sheet only.  
Use both faces.

**SECTION-A****Note :** Attempt any two questions. **2x10=20**

1. Write short notes on the following:
  - (a) Use of Stone in buildings
  - (b) Properties of Sand
  - (c) Characteristics of Cement mortar
2. Explain the need of DPC in building works and elaborate any two types of DPC used in building works.
3. Explain the manufacturing process of lime concrete and write the properties of lime used in building works.

**SECTION – B**

**Note :** Question no. 4 is compulsory. Attempt any ONE question from the rest.

4. Draw the details of a 'L' junction brick walls 230 mm **15**  
thick and 230 mm thick in Flemish bond. Prepare plans  
of two consecutive courses, Elevation, Section and  
isometric view.
  
  5. Draw the details of a Squared rubble masonry wall **15**  
400 mm thick. Prepare plan, elevation and section of  
a 3000 mm. X 3000 mm wall.
  
  6. Explain the role of foundation concrete and draw **15**  
details of simple spread foundation for 230 mm thick  
load bearing wall in Flemish / English bond.
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