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Total No. of Pages : 01

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**B. Arch. (2012 & Onwards) (Sem.-1)**  
**BUILDING CONSTRUCTION AND MATERIAL-I**  
**Subject Code : BACH-102**  
**M.Code : 45083**

Time : 4 Hrs.

Max. Marks : 70

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt two questions each from Unit I and Unit II.

**UNIT-I**

1. Outline the role played by Cement as a building material in construction. What are the types of cement used in construction, discuss their properties and usage? (12.5)
2. Write short notes on : (12.5)
  - a. Surkhi
  - b. Pointing
  - c. Bricks
3. Explain the various types of Stones used in construction and discuss their characteristics.

**UNIT-II**

4. Write short notes (with neat sketches) on following : (22.5)
  - a. Tools used in Brick Masonry.
  - b. Types of bats in Brick Masonry
  - c. L Junction of 9" thick wall in Flemish Bond.
5. Draw a Segmental arch for a span of 2.5m. Also label the important parts of an arch giving technical terms. (22.5)
6. Draw Plans and Elevation of T Junction of 9" thick wall with 13.5" thick wall in English Bond. (22.5)
7. Draw plan, elevation and section for : (22.5)
  - a. 450mm thick stone wall in coursed rubble masonry.
  - b. Ashlar masonry

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**