

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF ARCHITECTURE**  
**Winter 2015 Examination**

**Semester: 1**

**Date: 28/12/2015**

**Subject Code: 01101102**

**Time: 10:00AM to 01:00PM**

**Subject Name: Building Materials & Construction Technology – I**

**Total Marks: 50**

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Instructions:

1. Each section carries 25marks.
2. Q1 & Q2 are compulsory questions in each section.
3. **Only one question has to be attempted out of Q3 and Q4 in each section.**
4. Figures to the right indicate full marks.
5. Write separate sections on separate answer sheets.

**SECTION: A**

- Q:1** What is Brick Bond? Enlist various types of brick bonds. And draw the Elevation, Plan & Isometric view of English bond and Header bond. (10)
- Q:2** (a) Define arch. Enlist & Define any four types of arches, with schematic sketch. (5)
- (b) Explain the following : (5)
1. Give the Classification of rock & enlist the types of stones. (5)
  2. Types of soil and its usability for mud construction.
- Q:3** Define the following: (5)
1. Header, 2. Lintel, 3. Masonry, 4. Bond, 5. Adobe, 6. Mortar, 7. Course,
  8. Pointing, 9. Keystone, 10. Stretcher.
- Q:4** Write a short note on bamboo as a construction material. Sketch any two of the bamboo joineries. (5)

**SECTION: B**

- Q:1** What is Stone Masonry? Enlist and explain the two main type of stone masonry wall. Draw an elevation and section of 350 mm thick random rubble wall/ Uncoursed rubble wall. Having Height: 1500mm and width: 1000 mm. (10)
- Q:2** (a) Explain the manufacturing processes of brick. (5)
- (b) Explain in details with sketches: (5)
1. Wattle & Daub construction. (5)
  2. Cob Construction.
- Q:3** Enlist and Draw the various types of bricks. (5)
- Q:4** Explain the uses of bamboo in foundation, walls and as a roofing material. With required sketches. (5)

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