

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE
B.Arch. Summer 2016-17 Examination

Semester: 1**Subject Code: 01101102****Subject Name: Building Materials and Construction Technology-I****Date: 05/06/2017****Time: 10.00 am to 1.00 pm****Total Marks: 50****Instructions:**

1. Each section carries 25marks.
2. Q1 and Q2.a are compulsory questions of each section.
3. Q2.b has sub optional questions.
4. Only one question has to be attempted between Q3 and Q4.
5. Figures to the right indicate full marks.
6. Write section-A, section-B on separate answer sheets.

SECTION: A

- Q:1** Enlist and sketch elevations of five types of un-coursed stone masonry (10)
- Q:2 (a)** Enlist various types of Mud Construction Techniques - Explain any one with suitable sketches. (5)
- Q:2 (b)** Define Arch. Enlist & define any four types of arches, with schematic sketch. (5)

OR

- Q:2 (b)** Give the Classification of rock & enlist the types of stones. (5)
- Q:3** Define any five. (5)
1. Pointing 2. Lintel 3. Brick bond 4. Header 5. Masonry 6. Keystone
- Q:4** Explain Ashlar Masonary. Define its types. (5)

SECTION: B

- Q:1** What is brickwork and brick bond? Draw / sketch the elevation, plan & isometric view of the following a. English Bond b. Double Flemish Bond (10)
- Q:2 (a)** Explain classification of Bricks. (5)
- Q:2 (b)** Main Characteristics features of bamboo as a potential building material (5)

OR

- Q:2 (b)** Advantages and disadvantages of building with Bamboo. (5)
- Q:3** Different between Brick Masonry and Stone Masonry. (5)
- Q:4** Write down General characteristics of good bricks and define terms –brick closer. (5)