

Seat No: _____

Enrollment No: _____

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

Semester: III

Subject Code: 01101202

Subject Name: Building Materials & Construction Technology -III

Date: 05/06/2017

Time: 02 pm-05 pm

Total Marks: 60

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** in each section
5. Figures to the right indicate full marks.
6. Write separate sections on separate answer sheets.

SECTION: A

- Q:1** In a room having clear dimension of 2400mm Width x 4500mm Length x 3000mm height (including slab thickness), draw plan and longitudinal section of a Dog Legged Stair, to reach from Ground Floor to the top of First Floor slab. Scale 1: 25. **(10)**
- Q:2 (a)** Sketch the Following: **(5)**
1. Head Way
 2. Lock Rail
 3. Riser
 4. Tread
 5. Landing
- Q:2 (b)** Differentiate the following through Sketches: (any one) **(5)**
1. Louvered door & Collapsible door
 2. Gable window & Dormer window
 3. Wall Hung W.C. & Floor Mount W.C.

OR

- Q:2 (b)** Write a Short note on **any one** of the following: **(5)**
1. Fully Paneled Door
 2. Glazed Paneled Door.
 3. Parameters to be considered for locating Door & window in a building.
- Q:3** Enlist the Elements of Doors and mention with a schematic sketches. **(5)**
- Q:4** Define Steel. Enlist and Explain briefly various market forms of Steel used in construction. **(5)**

SECTION: B

- Q:1** Define Door & Window. Enlist with schematic sketches of at least two types of Doors & two types of Windows. **(10)**
- Q:2 (a)** Sketch the Following: **(5)**
1. Balustrade
 2. Flight
 3. Stile
 4. Stair
 5. Frame
- Q:2 (b)** Explain the following: (any one) **(5)**
1. Sanitary Fixtures
 2. Plumbing Fixtures
 3. Hardware Fixtures

OR

- Q:2** (b) Answer the following: (any one) (5)
1. Write short note on P,Q & S trap
 2. Enlist & Explain the various types of Wash Basin
 3. Enlist & Explain the various types of Urinals
- Q:3** Sketch the Plan & Elevation with detail labelling of a Double Shutter Window with glass panels in Wooden Frame. (5)
- Q:4** Define PVC. Explain advantages & disadvantages of PVC as a Building Material. (5)