

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE & PLANNING
B.Arch./ B.ID Winter 2018-19 Examination

Semester: 3**Subject Code: 01101202****Subject Name: Building Materials & Construction Technology – III****Date: 10/12/2018****Time: 10:00 am to 01:00 pm****Total Marks: 50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever required.
4. Draw suitable sketches wherever required.

Q.1 Explain Door and Window. Enlist the schematic sketches of at least four types of doors and four types of windows. (10)

Q.2 Attempt any five out of following six: (20)

- 1) Brief out the requirement of good staircase.
- 2) Define the following: any four
 1. Mullion
 2. Architrave
 3. Sill
 4. Headroom
 5. Horn
- 3) Differentiate between Wall Hung WC & Floor Mount WC.
- 4) Differentiate the following with necessary sketches:
 - i) Louvered window and Glazed window
 - ii) Collapsible door and Rolling shutter
- 5) Sketch the following:
 - i) Revolving door
 - ii) Battened, ledge and braced door
 - iii) Clerestory window
 - iv) Casement window
 - v) Bay window
- 6) Explain the following briefly:
 - i) Plumbing fixtures
 - ii) Fully paneled door

Q.3 Write a short note on the following: (any 05) (10)

1. Different functions of windows in detail.
2. Water closets (WC) and its types.
3. Enlist elements of door with sketches.
4. Sanitary Fixtures.
5. Types of taps with sketches.
6. Flush doors.

Q.4 Explain the following: (any 02) (10)

1. Enlist and depict through sketches various parts of Doors and Windows.
2. Draw/ Sketch the Section and Elevation with detail, labeling of Double shutter adjustable louvered window.
3. Mention materials used for manufacturing doors and windows. State advantages and disadvantages of each material.