Seat No:	Enrollment No:
	PARUL UNIVERSITY
	FACULTY OF ARCHITECTURE & PLANNING
	B.Arch./ B.ID Summer 2018-19 Examination

Semester: 3 Date: 29/04/2019

Subject Code: 01101202 Time: 02:00 pm to 05:00 pm

Subject Name: Building Materials & Construction Technology – III 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 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.

Q.2 Attempt any five out of following six:

(20)

- 1) Define Steel. Enlist and Explain briefly various market forms of Steel used in construction.
- 2) Define the following: (any four)
 - 1. Lock rail
- 2. Riser
- 3. Balustrade
- 4. Landing
- 5. Head-room

- 3) Differentiate between Louvered window and Glazed window
- 4) Differentiate the following with necessary sketches
 - i) Wall Hung WC & Floor Mount WC.
 - ii) Collapsible door and Louvered door
- 5) Explain the following with relevant sketches: (any four)
 - i) Revolving door

- iii) Clerestory window
- v) Bay window

- ii) Battened ,ledge and braced door
- iv) Casement window
- 6) Explain the following briefly:
 - i) Flush Door
- ii) Fully paneled door

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

(10)

- 1. P, Q & S trap
- 2. Sanitary Fixture
- 3. Various elements of door with sketches.
- 4. Hardware Fixtures
- 5. Plumbing Fixtures.
- 6. Types of Urinals

Q.4 Explain the following: (any 02)

(10)

- 1. Explain Door and Window. Enlist the schematic sketches of at least two types of doors and two types of windows.
- 2. Draw/ Sketch the Section and Elevation with detail, labeling of Double shutter adjustable louvered window
- 3. Define PVC. Explain advantages & disadvantages of PVC as a building material.