

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE & PLANNING
B. Arch. / BID Winter 2019 Examination

Semester: 3

Date: 09/12/2019

Subject Code: 01101202

Time: 10:00 am to 1:00 pm

Subject Name: Building Material and 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** Define Door and Window. Enlist the schematic sketches of at least four types of doors and four types of windows. **(10)**

OR

Draft/ sketch a suitable scale; plan and section of a Dog-legged staircase for a floor height of 3000 mm. The width of the flight is 900mm. Also label all the components of the stair case

- Q.2** Answer the Following (any five) **(20)**

A. Define and sketch the Following:

1. Folding Door
2. Corner Window

B. Explain the following:

1. Floor Mounted WC
2. Circular Staircase

C. Differentiate the following :

1. Awning Window & Hopper Window
2. Swing Door & Sliding Door

D. Differentiate the following:

1. S Trap & Q Trap
2. Wall Hung WC and Floor Mount WC

E. Give a brief comparison between Bifurcated Staircase & Circular Staircase.

F. Define the following terms with sketches:

1. Newel Post
2. Holdfast
3. Landing
4. Sill

- Q.3** Write a short note on the Following: (any 05) **(10)**

1. Explain different types of windows with sketches.
2. Explain water closets(WC) and its types.
3. Enlist elements of door with sketches.
4. Short note on Hardware fixtures.
5. Define staircase mention the factors to be considered while designing stairs
6. Write down short notes on P, Q, S Traps.

- Q.4** Explain the following (Any 2) **(10)**

1. Explain and enlist various types of washbasins along-with sketches.
2. Write down different factors to be consider for providing a window in a room.
3. Explain PVC as a building material with its advantages and disadvantages.