PARUL UNIVERSITY FACULTY OF ARCHITECTURE B. Arch, Winter 2017-18 Examination

Semester: III	Date: 05/12/2017
Subject Code: 01101202	Time: 10:00 am to 1:00 pm
Subject Name: Building Materials 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 Staircase. Draft or Sketch to a suitable scale; plan and section of a Dog-Legged (10) staircase for a floor height of 3000mm. The width of the flight is 1000mm. Having a riser of 120 mm & tread of 350 mm.

Q.2 Answer briefly (any 5)

a. Fill in the blanks:

- i. The unbroken series of steps between the landings is known as _____.
- ii. _____ is the intermediate horizontal framing member between the bottom and top rails in a framed door, where the lock is often fitted.
- iii. ______ is the vertical surface forming the front face of a step.
- iv. _____ is the horizontal platform or level area at the top of a flight of stairs, which may have another flight leading from it.

b. Differentiate the following with necessary sketches

- i. Dormer window and Gable Window
- ii. Push pull type rolling shutter and mechanical gear type rolling shutter.

c. Define the terms:

i) Staircase ii) Post iii) Landing iv) Lock rail

d. Sketch the following:

i) Collapsible steel door ii) Sliding door iii) Double hung window iv) Single hung window

e. Explain the following:

i) Revolving door ii) Folding door

f. Write a short note on the following:

i) Sanitary fixtures ii) Glazed paneled door

Q.3 Answer the following in brief:(Any 5)

- a. Sketch any 02 types of taps and washbasins.
- b. Enlist elements of door with schematic sketches.
- c. Explain water closets and its types.
- d. Define: Jamb and Stile
- e. Write brief note on S- traps.
- f. Mention the qualities of good concrete.

Q.4 Explain the following(Any 2)

- a. Different types of staircases and its components, with neat sketches
- b. Mention the requirements of good staircase.
- c. PVC as a building material with its advantages and disadvantages.

(10)

(10)

(20)