

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BArch- SEMESTER– 2 EXAMINATION – SUMMER 2016**

**Subject Code: 1025003**

**Date: 26/05/2016**

**Subject Name: Building Construction - II**

**Time: 10.30AM – 01.30PM**

**Total Marks: 40**

**Instructions:**

1. Attempt all questions.
2. Make Suitable sketches wherever necessary.
3. Figures to the right indicate full marks.

**Q.1**

- a) Draw a sectional elevation of a doglegged staircase showing all its parts **04**
- b) Design a single shuttered timber paneled door in an opening size of 1000 MM x 2100 MM and draw an elevation, plan and section of the same. **04**

**Q.2**

- a) Describe, with the help of sketches, a double hung window **04**
- b) Explain, with the help of diagrams, various systems of plumbing used for house drainage **04**

**OR**

- b) Explain in brief the characteristics of (a) good paint, (b) good varnish **04**

**Q.3** Explain the method of erection of centering for arch construction **08**

**OR**

**Q.3** Explain in brief: (Any four) **08**

1. State briefly the requirements of a good staircase.
2. Explain various types of traps commonly used.
3. Define 'Arch' & enlist any 4 types of arches
4. Define 'Foundation' & enlist any 4 types of foundation.
5. Explain various defects in painting.

**Q.4** Write a short note on: (Any two) **08**

1. Timber boards
2. Tiles
3. What is a Glass? Mention its various types available in market and explain in detail any four.

**OR**

**Q.4** Answer **any four** **08**

1. Explain skylights with the help of a neat sketch.
2. Write a short note on location of doors and windows.
3. Write a short note on various types of hinges used for doors and windows.
4. Explain with the help of sketches the various components of a stair.
5. Explain various uses of Tiles in our day-to-day life.

**Q.5** Write a short note on: (a) Urinals (b) Flushing cisterns **08**

**OR**

**Q.5** Explain classification of Arches based on: (a) shape, (b) number of centres, (c) material & Workmanship **08**

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