

Seat No.: \_\_\_\_\_ Enrolment No. \_\_\_\_\_  
**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BA – SEMESTER – 1 - EXAMINATION – SUMMER 2018**

**Subject Code: 1025003**

**Date: 16-May-2018**

**Subject Name: Building Construction-II**

**Time: 10:30 AM TO 01:30 PM**

**Total Marks: 40**

**Instructions:**

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

- Q.1 a) Explain in brief the characteristics of (a) good paint, (b) good varnish 04  
OR  
a) Explain various defects in painting.
- Q.2 Write a short note on: (Any three) 12  
1. Timber boards  
2. Tiles  
3. What is a Glass? Mention its various types available in market and their application in construction industry.  
4. What are the uses of non-ferrous metals in construction industry?
- Q.3 Explain through sketches (using geometric instruments) the geometry of any two of the following arches: 06  
1. Venetian arch 2. Florentine Arch 3. Pointed Arch 4. Trefoil Arch  
(Show centers and radius of the arches)  
OR
- Q.3 Draw elevation of Segmental Arch and explain the following Terms: 06  
1. Crown 2. Haunch 3. Voussoirs 4. Skew back 5. Intrados 6. Springing Line.
- Q.4 Design a single shuttered timber panelled door in an opening size of 1000 MM x 2100 MM and draw an elevation, plan and section of the same. 06  
OR
- Q.4 Draw an elevation, plan and section of a Fixed Louvered window with timber frame in an opening size of 650 MM x 650 MM.
- Q.5 Write short notes on: 1. Plumbing fixtures 2. Sanitary fixtures 08
- Q.6 Draw a sectional elevation of a doglegged staircase showing all its parts. 04  
OR
- Q.6 Sketch any 4 types of staircases.