

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE Arch. – SEMESTER – II • EXAMINATION – SUMMER • 2014

Subject Code: 1025003

Date: 28-05-2014

Subject Name: Building Construction - II

Time: 10:30 am - 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)** 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. **04**
- (b)** Draw an elevation, plan and section of a Fixed Louvered window with timber frame in an opening size of 650 MM x 650 MM. **04**
- Q.2 (a)** Draw a sectional elevation of a doglegged staircase showing all its parts. **04**
- (b)** Draw an isometric view of the plan of a horizontally sliding window in aluminium section in an opening size of 2000 MM x 900 MM. **04**
- OR**
- (b)** Differentiate between Ferrous & Non - Ferrous Metals. Give examples of each. **04**
- Q.3** Draw an elevation and a plan of a Pointed – Gothic Arch with a clear inner span of 1200 MM showing all its parts. **08**
- OR**
- Q.3** Explain in brief: (Any four) **08**
1. Define 'Door' & enlist any 4 types of doors
 2. Define 'Window' & enlist any 4 types of windows
 3. Define 'Arch' & enlist any 4 types of arches
 4. Define 'Staircase' & enlist any 4 types of staircases
 5. Define 'Foundation' & enlist any 4 types of foundations
- Q.4** Write a short note on: (Any two) **08**
1. Paint
 2. Glass
 3. Timber boards
- OR**
- Q.4** Sketch the following construction/fixing details in isometric: (Any four) **08**
1. Fixing of Stile and top rail of a panel door
 2. Fixing of Horizontal Adjustable Louvre with its operating handle and window frame
 3. Fixing of slider channel with the door shutter of a horizontal sliding door
 4. Fixing of Baluster of a staircase with the tread
 5. Fixing of Floor spring with Bottom rail of a glazed single shutter side – pivoted door.
- Q.5** Design a double shuttered panelled window with a timber frame and timber shutter with glass panels in an opening size of 1200 MM x 1500 MM and draw an elevation, plan and section of the same. Draw details also. **08**
- OR**
- Q.5** Write short notes on: 1. Plumbing fixtures 2. Sanitary fixtures **08**
