

GUJARAT TECHNOLOGICAL UNIVERSITY
B.ARCH. - SEMESTER-II EXAMINATION – WINTER 2015

Subject Code: 1025003

Date: 18/12/2015

Subject Name: Building Construction - II

Time: 02:30pm to 05:30pm

Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Supplement your answer with a neat sketch wherever necessary

- Q.1** State any two examples where the following Building Material may be used in the Building Construction. (For any four Materials out of Six) **08**
1. Textured Glass 2. Oil Paint 3. Glazed Tiles
4. Wrought Iron 5. Aluminum 6. Plywood
- Q.2 (a)** Enlist the types of Pipes which are used for Plumbing Services in a building and state the function for Each. (Any Four) **04**
(b) Enlist the types of Sanitary Fixtures which are used in a building and state the function for Each. (Any Four) **04**
- OR**
- (b)** Write an explanatory note on the types of Hinges available in the Market and its functions. **04**
- Q.3** Draft to a suitable scale; Plan and Elevation of a Dog-legged staircase for a floor height of 3000 MM. The width of the flight is 900 MM. Also Label all the components of the staircase. **08**
- OR**
- Q.3** Draft to a suitable scale; Plan and Elevation of a Helical staircase for a floor height of 3000 MM. The width of the flight is 900 MM. Also Label all the components of the staircase. **08**
- Q.4 (a)** Explain the term “Spandril” in brief. **02**
(b) Draft to a Suitable scale a “Semi Circular Arch” for a span of 2000 MM. The depth of the Arch is 300 MM. Label all the components of the Arch. **06**
- OR**
- Q.4 (a)** Explain the term “Abutment” in brief. **02**
(b) Draft to a Suitable scale a “Elliptical Arch” for a span of 1800 MM. The depth of the Arch is 250 MM. Label all the components of the Arch **06**
- Q.5** Design and draft to a suitable scale; a double leaf, paneled Timber Door in an opening size of 1200 MM X 2100 MM. Draft Plan, Elevation and Section for the same and label all the components. **08**
- OR**
- Q.5** Design and draft to a suitable scale; a Louvered Timber Window in an opening size of 900 MM X 1100 MM. Draft Plan, Elevation and Section for the same and label all the components. Give Enlarged Details for the louvers. **08**
