Seat No.: _____ Enrolment No._____

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) 1. Textured Glass 2. Oil Paint 3. Glazed Tiles 4. Wrought Iron 5. Aluminum 6. Plywood	**08**
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**

****