Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–III • EXAMINATION – SUMMER 2013

Subject Code: 130603 **Date: 27-05-2013**

Subject Name: Building And Town Planning

Time: 02.30 pm - 05.30 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Q.1 and Q.2 should entirely be done on drawing sheet**

Q.1		Prepare working drawings (Ground Floor plan, First Floor plan, front elevation and sectional elevation) after planning as per building bye-laws, principles of planning and principles of architecture for two storied residential detached house for a family of a doctor having six family members on land area of 18m X 22m, with drawing scale of 1:100.	**14**
Q.2	**(a)**	Draw foundation plan, stair details and details of openings for working drawing planned in Q.1	**07**
	(b)	Prepare the exterior two point perspective of a security room of plan area of 3m X 4m on the scale of 1:50. Assume other dimensions. In perspective view a door on one face and a window on other face should appear.	**07**
		OR	
	(b)	Plan an ideal residential neighborhood township on land area of 1km X 1.5km area with all amenities.	**07**
Q.3	**(a)**	Explain the factors considered for planning earthquake resistant buildings.	**07**
	(b)	Explain the necessity of building bye laws. Explain setback and margins with neat sketches.	**07**
		OR	
Q.3	**(a)**	Enlist the principles of architecture, and distinguish architectural scale and drawing scale.	**07**
	(b)	Enlist the principles of planning and distinguish the aspect and prospect with neat sketches.	**07**
Q.4	**(a)**	Explain the causes, preventive measures and remedial measures of slums.	**07**
	(b)	Explain the planning of a higher secondary school with neat line plan diagram.	**07**
		OR	
Q.4	**(a)**	Explain the principles of orientation with respect to North direction.	**07**
	(b)	Explain the planning of a hospital building for 30 beds, with line plan sketch diagram.	**07**
Q.5	**(a)**	Describe various surveys required to be conducted before preparing master development plan of a town.	**07**
	(b)	Define landscaping. Write merits and demerits of landscaping.	**07**
		OR	
Q.5	**(a)**	Give detailed classifications of the buildings.	**07**
	(b)	Enlist elements of town and explain principle of zoning for planning a town.	**07**

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