

**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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