

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE SEM-III Examination May 2012

Subject code: 130603

Subject Name: Building And Town Planning

Date: 09/05/2012

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.

- Q.1** (a) Design a residential building from the following requirement :- **07**
- (i) Kitchen
 - (ii) Drawing cum dining
 - (iii) Bed room – 2 nos.
 - (iv) Store
 - (v) Stair room (Internal stair only)
 - (vi) Verandah
- Select the suitable area for above requirements & draw to a scale of 1 : 100 GF plan. Give schedule of doors & windows. Show north line .
- (b) Draw the sectional elevation passing through stair of Q. No -1 (a) **07**
- Q.2** (a) Explain the following :- **07**
- (i) Detached house & Row house (ii) purposes of land scape design
- (b) Draw the neat sketch of the following **07**
- (i) Site plan (ii) Layout plan (iii) Key plan
- OR
- (b) Draw the line sketch of electrical layout & drainage plan of a residential building. **07**
- Q.3** (a) Enlist various principles of planning & explain any three of them. **07**
- (b) Explain the following terms with sketch **07**
- (i) Station point (ii) Horizon plane (iii) Vanishing point
- OR
- Q.3** (a) Draw the two point perspective view of building shown in fig 'X' **07**
- (b) What are the points to be keep in mind while planning of earthquake Resistant building? **07**
- Q.4** (a) Explain :- Objectives & Features of development plan. **07**
- (b) Explain with sketch :- **07**
- (i) Ribbon development
 - (ii) Satellite town
- OR
- Q. 4** (a) Discuss :- Causes of formation of slums & slum clearance methods **07**
- (b) Explain :- Importance of zoning & its types. **07**

- Q.5 (a)** State building byelaws for following **07**
 (i) Min area of room (ii) Basement (iii) Plinth
- (b)** State the requirements of a hospital building & draw the plan of it. **07**
- OR
- Q.5 (a)** State requirements of a school building and draw the plan of it. **07**
(b) Explain the following terms **07**
 (i) FSI (ii) Setback (iii) margin

