

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC- SEMESTER-I - EXAMINATION – SUMMER 2017

Subject Code: X10601

Date: 01/06/2017

Subject Name: BUILDING AND TOWN PLANNING

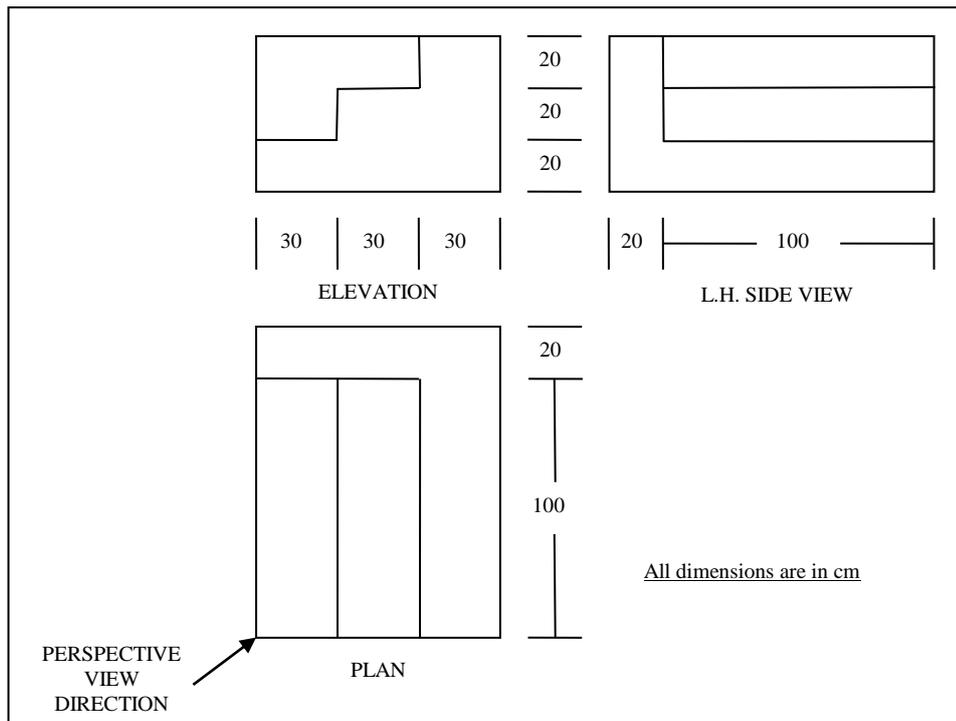
Time: 02:30 PM to 05:30 PM

Total Marks: 70

Instructions:

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain principles of Architecture related to positioning of building components in detail. **07**
- (b) Explain the concept of Orientation of buildings with suitable examples and neat figures. **07**
- Q.2** (a) Draw a line plan of residential building as per principles of planning and building bye laws from the following requirement for the 15 x 18 m plot size:-
(i) Kitchen (ii) Drawing cum dining (iii) Bed room – 2 nos. (iv) Store (v) Stair case (Internal stair only) (vi) Verandah (vii) W/C cum Bath Attached – 2 Nos.
Select the suitable dimensions for the said requirements & draw to a scale of 1:100 GF plan. Give schedule of doors & windows. Show north line and front road. **07**
- (b) Draw front elevation, and a plan showing Furniture and electrification details of the building in Q 2(a). **07**
- Q.3** (a) Draw with suitable scale, Two point Perspective for the following object. Assume suitably the distance of station point. **07**



- (b) Give a brief note on Classification of zoning. **07**
- Q.4** (a) Explain Planning of earthquake resistant building. Also explain symmetry, simplicity and continuity in planning of earthquake resistant buildings. **07**

- (b) Draw detailed plan of a Hospital with 10 beds with appropriate dimensions. Assume suitable data. **07**
- Q.5** (a) Elaborate planning of heavier massive components e.g. water tanks, affects the behavior of building during earthquakes. **07**
- (b) Plan a building of a school and draw a detailed plan of it. Assume suitable data. **07**
- Q.6** (a) Define term 'Town Planning'. Explain Master plan with Objects and necessity. **07**
- (b) Explain in detail : the surveys carried out for town planning **07**
- Q.7** (a) What are the causes and effects of slums? What are the precautions to be taken against formation of slum? **07**
- (b) Define landscaping. Write merits and demerits of landscaping. **07**
