

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-III Remedial Examination March 2010

Subject code: 130603

Subject Name: Building and Town Planning

Date: 10 / 03 / 2010

Time: 03.00 pm – 06.00 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 Design a single storey residential building on a plot of 300 sq. m. The maximum permissible built up area is 40 %. Draw ground floor plan which satisfies the following requirements with plinth height of 60 cm : **14**

- (a) Drawing room
- (b) Kitchen
- (c) Dining room
- (d) Two bedrooms (one with attached toilet)
- (e) Store
- (f) Bath and W.C.
- (g) Staircase

Take scale of 1:100. Show all dimensions.

Q.2 (a) Discuss the following principles of planning : **07**

(i) Aspect and Prospect (ii) Roominess (iii) Privacy.

(b) Explain the growth of towns according to the origin. Discuss the ribbon development and satellite town. **07**

OR

(b) Mention the purposes for town planning survey. Discuss various surveys conducted for town planning schemes. **07**

Q.3 (a) What are the objects of zoning? Explain various important aspects of zoning. **07**

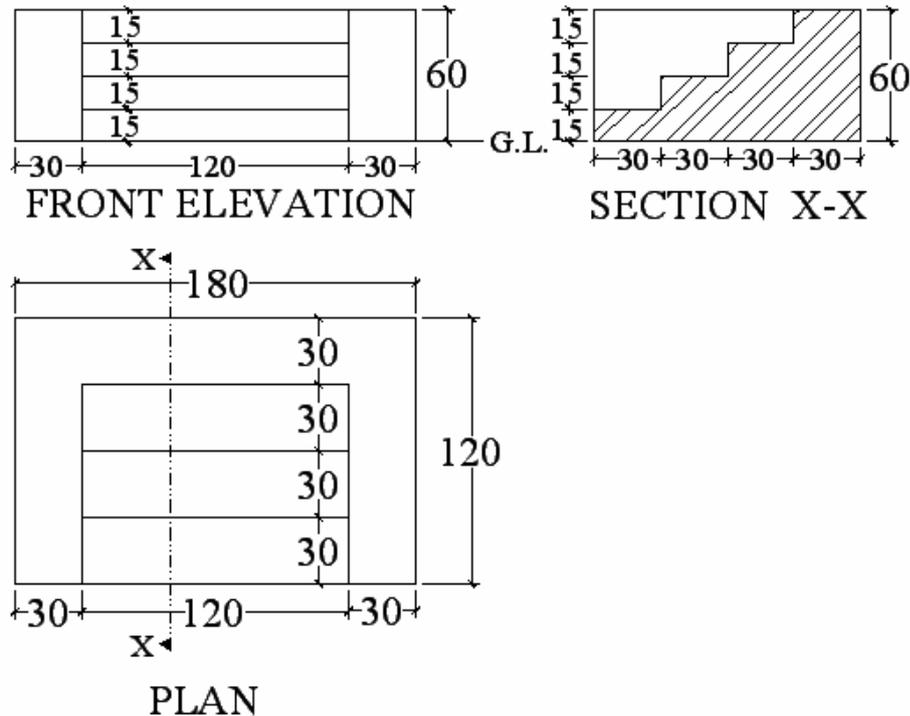
(b) State the principles of planning a neighborhood unit. Explain the importance of neighborhood planning and mention the essential features of neighborhood unit. **07**

OR

Q.3 (a) What are the reasons for preparing master plan for the town? Discuss various features of master plan for Military town and Hill station. **07**

(b) What are the causes of slums? Discuss the various methods for slum clearance. **07**

- Q.4 (a)** Draw the perspective view for the following sketch. Take suitable position of the observer. **07**



(NOTE : ALL DIMENSIONS ARE IN CENTIMETRES.)

- (b)** List various working drawings of a residential building with details. **07**
Mention the scales and units for preparing working drawings.
- OR**
- Q.4 (a)** Draw the foundation plan for the residential building that you have drawn in answer of Q.1. Take scale 1:50. Show all dimensions. **07**
- (b)** Discuss various points for the planning of earthquake resistant buildings considering symmetry, simplicity, continuity and staircase. **07**
- Q.5** Draw the front elevation for the residential building that you have drawn in answer of Q.1. Take scale 1:100. Show all necessary dimensions. Give the schedule of opening for same ground floor plan. **14**
- OR**
- Q.5** Draw the sectional elevation which shows the maximum details for the residential building that you have drawn in answer of Q.1. Take scale 1:100. Show all necessary dimensions. **14**
