

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEM-III Examination-Dec.-2011

Subject code: 130603**Date: 15/12/2011****Subject Name: Building and Town Planning****Time: 2.30 pm -5.30 pm****Total marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Attempt Q1 and Q2 in drawing sheet and other questions in answer sheet.

Q.1 (a) Draw ground floor and first floor plan of a two storeyed residential building on a 15×18 m plot area for a family of six persons as per building bye laws and principles of planning and architecture. Assume suitable direction of North and front road. **14**

Q.2 (a) Draw front elevation of the residential building you have drawn in the **Q.1** **05**
(b) Draw one suitable Section covering maximum details of the residential building drawn in the **Q.1** **09**

OR

(b) Draw a perspective view of single room building with inner dimension of $4\text{m} \times 5\text{m}$ and wall thickness of 30 cm. The plinth height is 60 cm and floor height is 3m. Door and window should be visible in the view. Assume other suitable data. **09**

Q.3 (a) Explain the meaning of Aspect and Circulation in planning of buildings. **04**
(b) Explain the building bye laws with reference to open space requirements and height limitations. **05**
(c) Explain the objects and principles of zoning in town planning. **05**

OR

Q.3 (a) How the earthquake resistant building is planned with respect to size and symmetry. **04**
(b) Draw a line diagram of a primary health centre for a village in the answer book. **05**
(c) Differentiate one point, two point and three point perspectives with neat sketch in answer book. **05**

Q.4 (a) Discuss the topics covered in civic survey and their use. **06**
(b) Describe town planning in two ancient Indian civilizations with neat sketch. **08**

OR

Q.4 (a) Explain objectives of town planning. **06**
(b) Define a development plan or master plan. Explain procedure to prepare development plan of an existing town. **08**

Q.5 (a) What is the importance of landscaping in town? **06**
(b) Discuss the growth of town according to origin. **08**

OR

Q.5 (a) What are the principles of neighborhood planning **06**
(b) What are the causes of slum? Describe two methods of slum clearance. **08**
