

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER- IV(NEW) EXAMINATION – SUMMER 2015

Subject Code:2140607

Date:05/06/2015

Subject Name: BUILDING AND TOWN PLANNING

Time: 10:30am-1.00pm

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) Draw ground floor and first floor plan of a two storeyed residential building on a 14 x 19 m plot area for a family of six persons as per building bye laws and principle of planning. Also draw front elevation of the building. Assume suitable direction of north and front road. Also assume necessary data. **14**

Q.2 (a) Enlist principle of planning and explain any two in detail. **07**
(b) Explain objective and scope of building bye – laws. **07**

OR

(b) Explain in brief Set – back, Light plane and FSI. **07**

Q.3 (a) Explain symmetry, simplicity and continuity in planning of earthquake resistant buildings. **07**
(b) Draw a line diagram of a Post office. Take size of units, according to general requirements of public building. **07**

OR

Q.3 (a) Draw the neat sketch of site plan and layout plan. **07**
(b) Explain the terms: Picture plane, Station point, Centre of vision, Vanishing point, Eye level, ground plane, angle of vision. **07**

Q.4 (a) Define term ‘Town Planning’. Explain principles of town planning. **07**
(b) Differentiate between: **07**
1. Functional survey and territorial survey
2. Social survey and vital survey

OR

Q.4 (a) Explain civic survey in detail. **07**
(b) Define zoning. Explain importance and objects of zoning. **07**

Q.5 (a) Write short note on principles of neighbourhood planning. **07**
(b) Explain urban patterns with sketches. **07**

OR

Q.5 (a) What are the causes and effects of slums? **07**
(b) Draw a chart of pillars of a smart city. **07**
