

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER– IV (New) EXAMINATION – WINTER 2019****Subject Code: 2144001****Date: 17/12/2019****Subject Name: Building, Town and Infrastructure Planning****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

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

**MARKS**

- Q.1 (a)** Draw Line plan of residential building according to the building bye-laws & principles of planning & architecture. **03**  
 Client has plot of 350 sqm. & following requirements.  
 1. 1 Consulting room with two separate entry.(1 from outside)  
 2. Two bedroom with attached W.C  
 3. Drawing room.  
 4. Kitchen with store room.  
 5. Staircase  
 Take FSI 1.0
- (b)** Draw Ground floor plan for the data provided in question-1 (a). **04**  
**(c)** Draw First floor plan and Front elevation for the data provided in Question-1(a). **07**
- Q.2 (a)** Explain concept of smart city. **03**  
**(b)** Give objectives of Town planning. **04**  
**(c)** Explain the planning of Hospital building with line sketch plan showing all necessary units with dimension & circulation. **07**
- OR**
- (c)** Explain the planning of Chemical industry building with line sketch plan showing all necessary units with dimension & circulation. **07**
- Q.3 (a)** Give necessity of Master plan. **03**  
**(b)** Give objectives of zoning. **04**  
**(c)** Explain in short the principles of architecture. **07**
- OR**
- Q.3 (a)** Explain Town planning in short. **03**  
**(b)** Give advantages of zoning. **04**  
**(c)** Write detailed note on:  
 1) Setback.  
 2) FSI. **07**
- Q.4 (a)** Give objectives of building bye-laws. **03**  
**(b)** Give advantages & disadvantages of vertical growth of town. **04**  
**(c)** Explain methods by which slum can be cleared. **07**
- OR**
- Q.4 (a)** Define building and explain any two type of building as per NBC. **03**  
**(b)** Explain various steps involved in preparation of master plan. **04**  
**(c)** Give main causes which are considered to have contributed to the formation of slums. **07**
- Q.5 (a)** What is Zoning? **03**

- (b) Explain symmetry, simplicity & continuity in earthquake resistance planning of building. **04**  
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- (c) Explain Ribbon development & Satellite growth of town in detail. **07**

**OR**

- Q.5** (a) What is necessity of survey in town planning? **03**  
(b) Give principles of urban conservation. **04**  
(c) Which methods are adopted to collect data for the surveys? Explain. **07**

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