

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– III (New) EXAMINATION – WINTER 2019****Subject Code: 3130609****Date: 3/12/2019****Subject Name: Building and Town Planning****Time: 02:30 PM TO 05:00 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** (a) Explain principle of Architecture planning. **03**
(b) Explain necessity of national building code. **04**
(c) Draw Plan of residential building in a plot area of 400 m² for a family of 4 Persons from the following requirements of Kitchen, Drawing room, Bed room, Study room, varndah . Also show the position of furniture in Drawing room Kitchen, Bed room in plan. **07**
- Q.2** (a) Give the fundamentals of BIM technology. **03**
(b) Explain following terms (1) FSI (2) Built up area (3) Key plan (4) Mezzanine floor. **04**
(c) Describe advantages and disadvantages of the RERA. **07**
- OR**
- (c) Write short note on "Software for ODPS". **07**
- Q.3** (a) Draw Water Supply line diagram for a residential building .Assume necessary Data. **03**
(b) Which factors will you consider for selecting site for a building? **04**
(c) Discuss software application in building planning and drawing for 2D model. **07**
- OR**
- Q.3** (a) Explain perspective view and its importance. **03**
(b) Give difference between one point perspective and two point perspective. **04**
(c) Discuss use of GIS tools for Town Planning. **07**
- Q.4** (a) Define term "Town Planning." **03**
(b) Write short note on: Indus valley civilization (3000 B.C.) **04**
(c) Which surveys are conducted to prepare proposal of town planning? explain each. **07**
- OR**
- Q.4** (a) What do you mean by 'Land uses ' for town planning? **03**
(b) Write the main objects of urban roads. **04**
(c) What do you mean by Zoning? And write the advantages of Zoning. **07**
- Q.5** (a) What are the principal of Neighborhood Planning. **03**

(b) Discuss the important features of master plan.

(c) Discuss the various methods of slum clearance. 07

OR

Q.5 (a) What do you mean by "civic surveys"? 03

(b) Write short note on : "Satellite town". 04

(c) Discuss in detail characteristics of smart city. 07

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