

**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 m<sup>2</sup> 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. **04**
- (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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