

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV (NEW) EXAMINATION – WINTER 2018****Subject Code:2140607****Date:12/12/2018****Subject Name:Building & 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) Enlist various Principles of Planning. **03**
(b) Explain types of Residential building. **04**
(c) Draw a section of building through wall and show its various components. **07**
- Q.2** (a) Define : (1) FSI (2) Set-back (3) Site plan **03**
(b) Explain unity mass composition and contrast as principles of Architecture. **04**
(c) Draw ground floor plan of a Residential building on a 16×20 m Plot area as per building bye laws and principles of planning and architecture. Assume suitable direction of North and front road. **07**
- OR**
- (c) Explain objectives and scope of building bye-laws. **07**
- Q.3** (a) Discuss principles of town planning. **03**
(b) Explain typical characteristics of various types of Perspective drawings. **04**
(c) Draw a line diagram of a primary school for a village. Take size of units according to general requirements of public building. **07**
- OR**
- Q.3** (a) What are the principles of neighborhood planning? **03**
(b) Explain the following terms with sketch. **04**
(1) Picture plan (2) Ground plane (3) Station point (4) Vanishing point
(c) How building is made earthquake resistant using construction technique? **07**
- Q.4** (a) Differentiate between: Social survey and Vital survey. **03**
(b) Write explanatory note on: Satellite town. **04**
(c) Write short note on Development plan or Master plan. **07**
- OR**
- Q.4** (a) Explain various aspects of Zoning. **03**
(b) Write explanatory note on: Indus valley civilization. **04**
(c) Discuss four basic pillars of a Smart City. **07**
- Q.5** (a) Write short note on public utility services. **03**
(b) Write short note on classification of urban roads. **04**
(c) Discuss slum clearance and its methods. **07**
- OR**
- Q.5** (a) Enlist various land use models. **03**
(b) Write short note on Ribbon development. **04**
(c) Briefly outline causes, characteristics and effects of slum. **07**
