

Seat No.: _____

Enrolment No. _____

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
