

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV(NEW) – EXAMINATION – SUMMER 2019

Subject Code:2140607

Date:25/05/2019

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 architecture composition and explain any one briefly. **03**
- (b) Draw a section through wall for one storey load bearing structure which shows major building components. **04**
- (c) Draw ground floor plan of semi detached house having a plot area 15× 18 m by considering building bye laws and Planning principles. Provide basic amenities for 4 members in family and Mention North Direction and other necessary data which are assumed for planning. **07**
- Q.2** (a) Identify the type of building (1) Dairies (2) Fire Station (3) Airport (4) Prisons (5) Multi level Parking (6) Dormitories **03**
- (b) Define Town Planning. Explain its objectives briefly. **04**
- (c) Draw a line diagram for primary health centre. Take suitable size of units and facilities according to general requirements of building planning. **07**
- OR**
- (c) Define Building bye laws. Explain the necessity and applicability of building bye laws. **07**
- Q.3** (a) Enlist various principles of planning and explain any one briefly. **03**
- (b) Explain following terms (1) FSI (2) Built up area (3) Key plan (4) Mezzanine floor **04**
- (c) Define (1) Station point (2) Angle of vision (3) Bird view point. (4) Vanishing Point Also write difference between one point perspective and two point perspectives. **07**
- OR**
- Q.3** (a) Explain the building bye laws, minimum size and other requirement for drawing room. **03**
- (b) Write short note on: House drainage plan **04**
- (c) Explain general principles in construction of earthquake resistant building. **07**
- Q.4** (a) Enlist and Draw different urban patterns. **03**
- (b) Discuss various surveys conducted for town planning scheme. **04**
- (c) Write short note on: Types of growth of towns **07**
- OR**
- Q.4** (a) Explain the concept of Smart City. **03**
- (b) Briefly explain the town planning in the period of Indus valley civilization. **04**
- (c) Explain different urban road system adopted in city planning. **07**
- Q.5** (a) What is zoning? Write its advantages for development of town. **03**
- (b) Write short note on Central business district. **04**
- (c) What is neighborhood planning? Explain principles of neighborhood planning. **07**
- OR**
- Q.5** (a) Define following terms (1) Landscape (2) Development Plan (3) Slum **03**
- (b) Explain any one case study of Smart city. **04**
- (c) Explain the causes of slums. And also Explain different methods use for slum clearance. **07**
