

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III (OLD) - EXAMINATION – SUMMER 2018

Subject Code:130603

Date: 25/05/2018

Subject Name: Building and Town Planning

Time:10:30 AM to 01:30 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Attempt Q.1 (a) and Q.1 (b) and Q.3 (b) in drawing sheet and other questions in answer sheet.

- Q.1 (a)** Draw a plan of residential building from the following requirement: - **07**
(i) Kitchen (ii) Drawing room (iii) Master Bed room (iii) Kids Room (iv) Staircase and (v) Verandah Select the suitable area for above requirements & draw to a scale of 1: 100 GF plan. Give schedule of doors & windows. Show north line also.
- (b)** Draw the Elevation view and furniture arrangement in plan of Q.1 (a). **07**
- Q.2 (a)** Explain: Principles of planning and explain Circulation and Roominess in detail. **07**
(b) What is National Building Code (NBC)? How it is helpful in planning and design of buildings. **07**
- OR**
- (b)** Write definition of Plinth Area, Floor Area, Carpet area, Floor Space Index and Set Back. **07**
- Q.3 (a)** How building is made Earthquake resistant using construction technique? **07**
(b) Draw a line diagram of any Public building. Take size of units, according to general requirements of public building. **07**
- OR**
- Q.3 (a)** Explain the terms: Picture Plane, Centre of Vision, and Vanishing Point. **07**
(b) Differentiate one point and two point perspective view with neat sketch. **07**
- Q.4 (a)** Define term “Town Planning”. **07**
(b) Write Short note on Ribbon Development. **07**
- OR**
- Q.4 (a)** Explain Principles of Town planning. **07**
(b) What are the various types of land uses? **07**
- Q.5 (a)** What do you mean by Zoning? **07**
(b) Explain urban patterns with sketches. **07**
- OR**
- Q.5 (a)** Define Slum and what are the bad effects of slums? **07**
(b) Write short note on Difficulties in slum clearance. **07**
