

Enrolment No./Seat No_____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-III (NEW) EXAMINATION – WINTER 2024

Subject Code: 3130609

Date: 29-11-2024

Subject Name: Building and Town Planning

Time: 10:30 AM TO 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

	Marks
Q.1 (a) What is orientation? Discuss the factors affecting orientation.	03
(b) Define the terms: (i) Carpet area (ii) Floor area (iii) Floor area ratio (iv) Set back	04
(c) Draw ground floor plan of a residential building on an 18 x 20m plot area as per building bye laws and principle of planning and architecture. Assume suitable direction of north and front road. Also assume necessary data.	07
Q.2 (a) Explain scope of Building bye-laws.	03
(b) Define BIM? What is its importance.	04
(c) Explain principles of building planning.	07
OR	
(c) Write short note on Online development permission system.	07
Q.3 (a) Explain the principle of perspective projection.	03
(b) Explain procedure for drawing one point perspective.	04
(c) Briefly outline the factor influencing the selection of site for various types of public buildings.	07
OR	
Q.3 (a) Draw a line diagram of a primary health Centre for a village.	03
(b) Differentiate between Isometric view and Perspective view.	04
(c) What are the points to be kept in mind while planning of earthquake resistant buildings?	07
Q.4 (a) Differentiate between Social survey and Vital survey.	03
(b) Explain any one case study of Smart city.	04
(c) Write descriptive and detail note on: Origin and growth of towns.	07
OR	
Q.4 (a) What is importance of landscaping in town?	03
(b) Write characteristics of CBD.	04
(c) Discuss slum clearance and its methods.	07

- Q.5** (a) Describe the role of civil engineer in construction industry. **03**
(b) Give classification of urban roads. **04**
(c) What are the principles of neighborhood planning? **07**

OR

- Q.5** (a) What are the features of neighborhood unit? **03**
(b) Write explanatory note on: Indus valley civilization **04**
(c) List various fittings and fixtures used in water distribution system in a building. **07**
What are their requirements?
