

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III (NEW) EXAMINATION – WINTER 2023

**Subject Code:3130609**

**Date:18-01-2024**

**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
<b>Q.1</b>	(a) Enlist principles of planning and discuss its influence on final design.	<b>03</b>
	(b) Define the terms: (i) Mezzanine floor (ii) Floor area ratio (iii) Set back (iv) Light Plane	<b>04</b>
	(c) Draw ground floor and first floor plan of a two storeyed residential building on a 15 x 20m plot area for a family of six persons as per building bye laws and principle of planning. Assume suitable direction of north and front road. Also assume necessary data.	<b>07</b>
<b>Q.2</b>	(a) What is BIM? What is its importance.	<b>03</b>
	(b) What is NBC? How it is helpful in planning and design of buildings?	<b>04</b>
	(c) Write short note on ODPS.	<b>07</b>
<b>OR</b>		
	(c) Enlist and explain the principles of architectural composition.	<b>07</b>
<b>Q.3</b>	(a) Define with neat sketches picture plane, vanishing point, and Station point	<b>03</b>
	(b) Which factors will you consider for selecting site for a building?	<b>04</b>
	(c) How building is made earthquake resistant using construction technique?	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) Explain with sketches, house drainage system of a building.	<b>03</b>
	(b) Differentiate one point, two point and three-point perspective view	<b>04</b>
	(c) Discuss software application in building planning and building drawing for 2D model generation.	<b>07</b>
<b>Q.4</b>	(a) Differentiate between Social survey and vital survey.	<b>03</b>
	(b) What is the importance of Landscaping in town?	<b>04</b>
	(c) Define the term Town planning? Explain objectives and principles of town planning.	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) Explain various aspects of Zoning.	<b>03</b>
	(b) Explain any one case study of Smart city.	<b>04</b>
	(c) Discuss slum clearance and its methods.	<b>07</b>
<b>Q.5</b>	(a) Give classification of urban roads.	<b>03</b>
	(b) Write characteristics of CBD.	<b>04</b>
	(c) Write descriptive and detailed note on: origin and growth of towns.	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) What is necessity or purposes of survey?	<b>03</b>
	(b) Write explanatory note on: Ribbon development.	<b>04</b>
	(c) Write short note on neighborhood planning.	<b>07</b>

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