

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER– III(NEW) EXAMINATION – WINTER 2022****Subject Code:3130609****Date:24-02-2023****Subject Name:Building and 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.
4. Simple and non-programmable scientific calculators are allowed.

		<b>MARKS</b>
<b>Q.1</b>	(a) Compare principles of planning with principles of architecture in terms of final design of building.	<b>03</b>
	(b) What is difference between National Building Code and Local Building Bye-laws?	<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. Also draw front elevation of the building. Assume suitable direction of north and front road. Also assume necessary data.	<b>07</b>
<b>Q.2</b>	(a) Explain Elements of BIM.	<b>03</b>
	(b) Explain the terms: (i) FSI (ii) RERA (iii) Set-back	<b>04</b>
	(c) Write short note on “Software for ODPS”.	<b>07</b>
	<b>OR</b>	
	(c) Explain key features of RERA Act.	<b>07</b>
<b>Q.3</b>	(a) Explain with sketches, house drainage system of a building.	<b>03</b>
	(b) Discuss working drawings.	<b>04</b>
	(c) Differentiate 2D model generation and 3D model generation in building planning and drawing.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) Define with neat sketches picture plane, vanishing point and ground line.	<b>03</b>
	(b) Differentiate one point, two point and three point perspective view.	<b>04</b>
	(c) How building is made earthquake resistant using construction technique?	<b>07</b>
<b>Q.4</b>	(a) Explain social survey and territorial survey.	<b>03</b>
	(b) Explain any one case study of Smart city.	<b>04</b>
	(c) Write a short note on Development plan or Master plan.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) Explain various aspects of Zoning.	<b>03</b>
	(b) Define town center and explain Business centers and Light Shopping Centers.	<b>04</b>
	(c) Define Slum and explain its causes.	<b>07</b>
<b>Q.5</b>	(a) Write a short note on public utility services.	<b>03</b>
	(b) Discuss various surveys conducted for town planning scheme.	<b>04</b>
	(c) Write a short note on: Types of growth of towns.	<b>07</b>

**OR**

- Q.5** (a) What are the historical aspects of town planning in the world? **03**  
(b) Write short note on characteristics of CBD. **04**  
(c) What is neighborhood planning? Explain principles of neighborhood planning. **07**

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