

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER– IV (New) EXAMINATION – WINTER 2019****Subject Code: 2140607****Date: 16/12/2019****Subject Name: Building & 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.

		MARKS
<b>Q.1</b>	(a) Define the following terms: Courtyard, Loft, Porch, Building line, Plinth area, carpet area .	<b>03</b>
	(b) What is FAR? Discuss the spaces not included in built up area while calculating FSI?	<b>04</b>
	(c) Enlist principles of Architectural composition. Explain any two in brief.	<b>07</b>
<b>Q.2</b>	(a) Explain Setback with a neat sketch.	<b>03</b>
	(b) Discuss Key plan, Layout plan & Site plan in brief.	<b>04</b>
	(c) Explain symmetry, simplicity & continuity in planning of earthquake resisting buildings.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(c) Explain various building components with a neat sketch.	<b>07</b>
	(a) Write down necessity of Building byelaws.	<b>03</b>
	(b) Differentiate between two point & three point perspective drawings with sketches.	<b>04</b>
	(c) Explain factors considered for selection of site for residential buildings.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) Define the following terms: Picture plane, Cone of vision, Vanishing point.	<b>03</b>
	(b) Discuss classification of building based on structural design.	<b>04</b>
	(c) Draw a layout of shopping mall for a city. Take size of units according to general requirement of public building.	<b>07</b>
<b>Q.4</b>	(a) Define Town planning. Discuss origin of towns	<b>03</b>
	(b) Explain objectives of town planning.	<b>04</b>
	(c) Discuss Ribbon development in brief. Also write advantages and disadvantages of it.	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) Enlist classification of Growth of towns.	<b>03</b>
	(b) Explain need of civic surveys for planning purpose.	<b>04</b>
	(c) Explain fundamental principles of Town planning.	<b>07</b>
<b>Q.5</b>	(a) Write a note on Remedial measures for avoiding Slum formation.	<b>03</b>
	(b) What is Master plan? Enlist features of Master plan.	<b>04</b>
	(c) Explain aspects of zoning in brief.	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) Explain pillars of a smart city.	<b>03</b>
	(b) Write a note on features of Neighbourhood unit.	<b>04</b>
	(c) Discuss classification of urban roads in brief.	<b>07</b>

\*\*\*\*\*