

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER- IV EXAMINATION – SUMMER 2020****Subject Code: 2140607****Date:02/11/2020****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
Q.1	(a) Define Building and Explain Any Two Types of Building as per NBC Classification	03
	(b) What is FAR? Discuss the spaces not included in built up area	04
	(c) List out The Principles of Building Planning and Explain	07
Q.2	(a) Define : (1) FSI (2) Set-back (3) Site plan	03
	(b) What do you mean by building byelaws? What are the objectives of building bye laws?	04
	(c) Draw ground floor plan of a Residential building on a 16×20 m Plot area as per building bye laws and principles of planning and architecture. Assume suitable direction of North and front road.	07
	OR	
Q.3	(c) List out the Principles of Architectural Composition and explain Character, Balance & symmetry and Unity in Detail.	07
	(a) Explain the following terms with sketch. (1) Picture plan (2) Ground plane (3) Station point	03
	(b) Differentiate between one point perspective and two point perspective with a sketch.	04
	(c) Draw a line diagram of a primary school for a village. Take size of units according to general requirements of public building.	07
	OR	
Q.3	(a) Explain symmetry, simplicity principles in construction of earthquake resistant planning of buildings.	03
	(b) Explain various aspects of Zoning.	04
	(c) Draw a layout of shopping mall for a city. Take size of units according to general requirement of public building.	07
Q.4	(a) Explain : Ribbon Development	03
	(b) Write explanatory note on: Indus valley civilization.	04
	(c) Explain the principles of neighbourhood planning in detail.	07
	OR	
Q.4	(a) Define Town planning. Discuss origin of towns	03
	(b) Explain need of civic surveys for planning purpose.	04
	(c) Discuss four basic pillars of a Smart City.	07
Q.5	(a) Explain the concept of smart city	03
	(b) Write short note on classification of urban roads.	04
	(c) What is Master plan? Enlist& discuss the features of Master plan.	07
	OR	
Q.5	(a) Enlist various land use models.	03
	(b) Write short note on public utility services	04
	(c) Briefly outline causes, characteristics and effects of slum.	07
