

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-V(NEW) EXAMINATION – SUMMER 2022

Subject Code:3154011**Date:09/06/2022****Subject Name:Building & 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.

		MARKS
Q.1	(a) Describe advantages of zoning.	03
	(b) Write short note on characteristics of CBD.	04
	(c) Draw Plan of residential building in a plot area of 400 M ² for a family of 4 persons from the following requirements of kitchen, drawing room, bed room, master bed room, study room. Verandah. Also show position of furniture in Drawing room, Kitchen, Bed room in plan.	07
Q.2	(a) Explain light plane.	03
	(b) Draw the neat sketch of site plan and layout plan.	04
	(c) Enlist principles of planning and explain Elegance and Grouping in detail?	07
OR		
	(c) Write short note on ventilation in a building.	07
Q.3	(a) Define plinth area, carpet area and floor area.	03
	(b) Explain classification of buildings based on structural design.	04
	(c) Explain Contrast and Proportion as principles of architecture.	07
OR		
Q.3	(a) Explain social survey & territorial survey.	03
	(b) What is the necessity of civic surveys for town planning purpose?	04
	(c) Explain scope and applicability of building bye-laws.	07
Q.4	(a) Explain growth of towns.	03
	(b) How national building codes are necessary?	04
	(c) What is National Building Code (NBC)? How it is helpful in planning and design of buildings?	07
OR		
Q.4	(a) What is RERA? Why it is useful?	03
	(b) Write short note on ribbon development.	04
	(c) Explain concept of "smart City"	07
Q.5	(a) What is satellite town?	03
	(b) Explain methods of slum clearance.	04
	(c) Differentiate one point, two point and three point perspectives with neat sketch.	07
OR		
Q.5	(a) Enlist the objects of Urban roads.	03
	(b) Write a note on the application of GIS in town planning.	04
	(c) Discuss the term "Density Zoning" and "Height Zoning".	07
