Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

		BE - SEMESTER- III (NEW) EXAMINATION – SUMMER 2022	
Subj	ect	Code:3130609 Date:15-07	-2022
•		Name:Building and Town Planning	
•		:30 PM TO 05:00 PM Total Mar	ks:70
Instru			
		Attempt all questions.	
	2. 3.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
		Simple and non-programmable scientific calculators are allowed.	
			Marks
Q.1	(a)	• • • • • • • • • • • • • • • • • • • •	03
	(b)		04
	(a)	of aspect and prospect for residential buildings.	07
	(c)	Draw ground floor plan of a single storied residential building on a 14 m X 20 m plot area for a family of four persons as per building bye laws and	U/
		principles of planning and architecture. Also provide an inbuilt staircase	
		which permits access to first floor. Assume suitable north direction and	
		front road.	
Q.2	(a)	Explain usefulness and importance of National Building Code (NBC).	03
Q.2	(b)	•	04
	(c)	Give an overview of RERA and explain its importance.	07
		OR	
	(c)	What is ODPS? Explain its working.	07
Q.3	(a)	Draw Water Supply line diagram for a residential building to supply water	03
		from water main to the various plumbing units of house. Assume	
		necessary Data.	0.4
	(b)		04 07
	(c)	What is meant by the term zoning? Explain the objectives and advantages of zoning.	07
		OR OR	
Q.3	(a)	Draw drainage system plan to dispose both soil and waste water for a	03
		residential building. Assume necessary Data.	
	(b)		04
	(c)	What is meant by the term slum clearance? Explain the methods by which slum clearance programmes can be made effective.	07
		stum clearance programmes can be made effective.	
Q.4	(a)	What does perspective drawing mean? Why is the perspective drawing	03
		required?	
	(b)		04
	(a)	Horizontal plane Explain how an architectural composition unity is achieved?	07
	(c)	Explain how an architectural composition unity is achieved? OR	07
Q.4	(a)		03
~	(b)	Explain the classification of perspective views based on the number of	04
		vanishing points.	
	(c)	Explain symmetrical and unsymmetrical balance architectural composition	07

Q.5 (a) Enlist and explain various elements of building drawing.

(b) Draw the neat sketch of site plan and layout plan and differentiate them.

03

04

	(c)	Discuss usefulness of software applications in planning and drawing for	07	
		2D model of a building.		
		OR		
2.5	(a)	What is difference between line drawing and detailed drawing?	03	
	(b)	Explain following terms (1) Plinth Area (2) Floor area (3) FAR (4) FSI	04	
	(c)	Discuss usefulness of software applications in planning and drawing for	07	
		3D model of a building.		
