

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III(NEW) EXAMINATION – SUMMER 2023****Subject Code:3130609****Date:28-07-2023****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.

		Marks	
Q.1	(a) Explain necessity of National Building Code (NBC).	03	
	(b) Explain Following terms: (1) FAR (2) Layout plan (3) Height of building (4) Set back	04	
	(c) Draw ground floor plan and first floor plan for two stories residential building on plot of 350 m ² area for a family of 6 persons. Use principle of building planning and building bye laws. Assume north direction, front road and other necessary data.	07	
Q.2	(a) Write a short note on BIM.	03	
	(b) Define Building bye laws and also describe application of building bye laws.	04	
	(c) Explain in detail Principle of planning.	07	
OR			
Q.3	(c) Write short note on ODPS.	07	
	(a) Define following: (1) Picture plane (2) Vanishing Point (3) Center of vision.	03	
	(b) Explain principles of architectural composition.	04	
Q.3	(c) Draw line diagram of Bank (Public Building). Take size of units according to the general requirement of public building as per bye laws.	07	
	OR		
	(a) Explain perspective view and its importance.	03	
Q.4	(b) How building is made Earthquake resistant using construction technique?	04	
	(c) Discuss software application in building planning and drawing for 2D model.	07	
	(a) Differentiate one point and two point perspective view.	03	
Q.4	(b) Enlist the general principle in construction of earthquake resistance building and explain any one.	04	
	(c) Assuming suitable position and height of the observer and other essential data to draw a perspective view of a single room of 6m X 5m with the following details:	07	
	(1) Plinth height= 1.0 m (2) Wall thickness= 0.3m (3) Window sill level= 0.9m (4) Long wall window side= 2.2m X 1.2m (5) Door= 1.2m X 2.1m (6) Clear floor height= 3.0m Assume other necessary data if required.		
OR			
Q.4	(a) Write down the necessity of civic survey.	03	
	(b) Explain principle of neighborhood planning.	04	
	(c) Discuss growth of town according to origin and direction.	07	
Q.5	(a) Define Zoning and enlist principle of zoning.	03	
	(b) Write short note on British period till 1947	04	
	(c) Discuss in detail characteristics of smart city.	07	
OR			

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| Q.5 | (a) Explain CBD and its characteristics. | 03 |
| | (b) Explain classification of land use. | 04 |
| | (c) Explain the causes of slum; Describe the methods of slum clearance. | 07 |

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