

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER- III EXAMINATION – SUMMER 2020****Subject Code: 3130609****Date:02/11/2020****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.

		MARKS
Q.1	(a) Explain principle of planning.	03
	(b) Explain objective and scope of building bye -laws.	04
	(c) Draw ground floor plan of residential building on a 15 m × 18 m plot area for a family of four persons as per building bye laws and principles of Planning and architecture. Assume suitable direction of North and front Road. And other necessary data which required For planning Purpose. Also mention the schedule of opening.	07
Q.2	(a) What is BIM? Discuss its components.	03
	(b) Explain in brief (any four) : Set – back, Light plane, FSI, Mezzanine Floor and, Built up Area.	04
	(c) Write short note on “Software for ODPS”.	07
OR		
	(c) Explain the factors considered for planning earthquake resistant buildings.	07
Q.3	(a) What are the basic requirements for residential building planning?	03
	(b) Explain with sketches, house drainage system of a building.	04
	(c) Discuss software application in building planning and building drawing for 3D model generation.	07
OR		
Q.3	(a) Explain perspective view and its importance.	03
	(b) Explain the terms (any four): Picture plane, Centre of vision, Vanishing point, ground plane, angle of vision, Horizontal plane.	04
	(c) Prepare ground floor plan of primary school for 1 to 12 standards and 40 students in each class.(assume necessary data required).	07
Q.4	(a) Discuss brief history of town planning.	03
	(b) Write short note on: Pre- independent period or British period (Till 1947).	04
	(c) Discuss growth of towns according to origin and direction.	07
OR		
Q.4	(a) What do you mean by: Civic Survey”.	03
	(b) Explain classification of land use.	04
	(c) Discuss the classification of urban roads.	07
Q.5	(a) Discuss importance of zoning.	03
	(b) What is the importance of neighborhood planning?	04
	(c) Discuss objects and necessity of master plan.	07
OR		
Q.5	(a) What is CBD (Central Business District).	03
	(b) What are the main reasons for the formation of slums?	04
	(c) Write short note on: (i) Open plot scheme for slum (ii) Difficulties in slum clearance.	07