

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) - EXAMINATION – SUMMER 2017

Subject Code: 2140607

Date: 12/06/2017

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	Short Questions	14
	1 Define: Carpet Area	
	2 What do you mean by plinth level.	
	3 Explain : Site Plan	
	4 Define: Mezzanine Floor	
	5 Building bye-Laws are framed by	
	6 No. of stories restricted for load bearing building is	
	7 No. of Tread required= Total riser-1 (True OR False)	
	8 Sectional view is drawn to convey.....	
	9 What is the minimum size of riser of stair case in the residential Building?	
	10 The roads which connect, the town to a state highway or a national highway are termed as	
	11 The government of India has a vision of developing..... Smart cities.	
	12 The ratio of height to width of the road will be 2:1 in case oflight plane rule.	
	13 Define: Town Planning	
	14 Define: Slum	
Q.2	(a) Give classification of Residential Buildings.	03
	(b) Explain Factors Considered for Selection of site for building.	04
	(c) Draw a line diagram of primary School. Take size of units according to general requirements of public building.	07
	OR	
	(c) Draw ground floor plan and front elevation of residential building on a 20 m × 14 m plot area for a family of four persons as per building bye laws and principle of planning. Assume necessary data require. Building should be on the ground floor only.	07
Q.3	(a) Explain: Set-Back.	03
	(b) Briefly explain behavior of structure during earthquake and possible move and pattern of Failure.	04
	(c) Enlist and explain in brief principles of planning.	07

OR

Q.3	(a)	Explain the following terms: 1) Centre of vision. 2) Vanishing point. 3) Picture plan	03
	(b)	Differentiate one point and Two point Perspective.	04
	(c)	Draw layout plan of Drainage system.	07
Q.4	(a)	Explain: Aims and objects of Town Planning.	03
	(b)	Explain: Principles of Neighbourhood Planning	04
	(c)	Discuss Various Aspects of Zoning.	07
		OR	
Q.4	(a)	Objects of Master Plan.	03
	(b)	Short Note: Civic Survey and Regional Survey	04
	(c)	Enlist Types of Street System. Explain any Two.	07
Q.5	(a)	Explain Advantages of Zoning.	03
	(b)	Give Characteristics of Central Business district.(CBD)	04
	(c)	Explain growth of Town according to origin.	07
		OR	
Q.5	(a)	Discuss the various methods adopted to collect data for the town planning.	03
	(b)	Describe pillars of smart city.	04
	(c)	Discuss the various methods of slum clearance.	07
