

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 2140607

Date: 29/11/2017

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.

		MARKS
Q.1	(a) Define Building and Explain Any Two Types of Building as per NBC Classification.	03
	(b) What are the Differences between Principles of Building Planning and Principles of Town Planning?	04
	(c) List out The Principles of Building Planning and Explain Aspect, Prospect in detail with sketches.	07
Q.2	(a) What do you mean by building byelaws? What are the objectives of building bye laws?	03
	(b) Define: Light Plane, Floor Space Index, Mezzanine Floor, Built up Area	04
	(c) Draw Ground Floor and First Floor Plan For a two storeyed residential building on a 18m×20m Plot area for a family of 8 persons. Use Principles of building planning and building bye laws. Assume North Direction and other necessary data.	07
	OR	
	(c) List out the Principles of Architectural Composition and explain Character, Balance & symmetry and Unity in Detail.	07
Q.3	(a) Draw Water Supply line diagram for a residential building. Assume necessary Data.	03
	(b) Differentiate between one point perspective and two point perspective with a sketch.	04
	(c) Explain the point to be considered for locating staircase and overhead water tank in building in concern with earthquake resistant planning.	07
	OR	
Q.3	(a) Explain symmetry, simplicity principles in construction of earthquake resistant planning of buildings.	03
	(b) Define in reference to perspective drawings: Station point, vanishing point, center of vision, picture plane	04
	(c) Explain Zoning, its importance and classification in detail.	07
Q.4	(a) Explain : Ribbon Development	03
	(b) Explain the measures taken by the authority to prevent slump formation.	04
	(c) Explain the principles of neighbourhood planning in detail.	07
	OR	
Q.4	(a) What are the historical aspects of town planning in the world?	03
	(b) Define town center & explain Business centers and Light Shopping Centers.	04
	(c) Define Slum and explain its causes.	07

Q.5	(a) Differentiate between Social Survey and Territorial Survey.	03
	(b) Explain Land use planning in detail.	04
	(c) Explain the pillars of smart city in detail.	07
	OR	
Q.5	(a) Explain the concept of smart city.	03
	(b) Write the brief not on different urban road systems adopted in city planning.	04
	(c) Enlist the principles of town planning and explain all.	07
