**Q.5** 

Subject Code:2140607

Date:04/01/2016

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-IV (New) EXAMINATION - WINTER 2015** 

Subject Name: Building & Town Planning Time: 2:30pm to 5:00pm Instructions:  Total Marks: 70			70
	2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a)	Draw Plan of residential building in a plot area of 400 M <sup>2</sup> for a family of 4 persons from the following requirements of Kitchen, Drawing room, Bed room, Master Bed room, Study Room, Verandah. Also show position of furniture in Drawing room, Kitchen, Bed room in plan.	07
	<b>(b)</b>	Enlist principles of planning and explain Elegance and Grouping in detail?	07
Q.2	(a) (b)	Write short note on ventilation in a building. Explain Contrast and Proportion as principles of architecture.  OR	07 07
	<b>(b)</b>	Explain scope and applicability of building bye-laws.	07
Q.3	(a)	What is National Building Code (NBC)? How it is helpful in planning and design of buildings?	07
	<b>(b)</b>	Explain plinth area, carpet area and floor area.  OR	07
Q.3	(a)		07
	<b>(b)</b>	Define: 1) cottage, 2) Tenament, 3) Dormitory, 4) Flat, 5) Outhouse, 6) Low rise building, 7) High rise building.	07
Q.4	(a)	Explain behavior of structures during earthquake and possible mode and pattern of failure.	07
	<b>(b)</b>	Differentiate one point, two point and three point perspectives with neat sketch.  OR	07
Q.4	(a) (b)	Discuss the term 'Density Zoning' and 'Height Zoning.  Discuss four basic pillars of a smart city.	07 07
Q.5	(a) (b)	Explain concept of 'Smart City'  Draw a plan of neighbourhood unit for a population of 6000 people spreading in 320 acres of land.	07 07

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(a) Discuss urban road systems in city planning.

(b) Write short on: a) Ribbon development, 2) Satellite Town.

**07** 

**07**