Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER II– EXAMINATION – WINTER - 2016

Subject Code: 2721303 Date: 19/11/2010 Subject Name: Regional and Mass Transportation System Planning			16
Time: 2:30 pm to 5:00 pm Instructions: Total Marks: 7		70	
ms		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain objectives and constraints of Regional Transportation Planning. Describe the linear, exponential and logistic models for population forecasting.	07 07
Q.2	(a) (b)	Explain employment forecasting models based on economic considerations. Describe Cohort Analysis for population forecasting. OR	07 07
	(b)	Explain the factors to be considered while developing a regional transportation planning model.	07
Q.3	(a)	Discuss Central place theory and Growth pole theory of regional transportation planning.	07
	(b)	Explain the data requirement for developing the Transport Land Use Model. OR	07
Q.3	(a) (b)	Briefly explain the delineation criteria for transportation planning regions. Explain the rural road network development approaches.	07 07
Q.4	(a)	Describe the Input-Output analysis and its application in regional freight transportation planning.	07
	(b)	Explain briefly the PMGSY and recent development in road construction in India.	07
		OR	
Q.4	(a) (b)	Discuss social and environmental aspects of regional development. Explain Hansen's accessibility model.	07 07
Q.5	(a) (b)	Describe the points to be considered for urban mass transit routing. Which factors do you consider while urban mass transit network design? OR	07 07
Q.5	(a) (b)	Describe the points to be considered for urban mass transit scheduling. How will you predict the demand and spatial allocation for urban goods movement?	07 07
