Sul Tir	bject ne: 0 struc 1. 2.	GUJARAT TECHNOLOGICAL UNIVERSITYM. E SEMESTER – II • EXAMINATION – WINTER • 2014code: 1721303Date: 04-12-2014code: 1721303Date: 04-12-2014Name: Regional and Mass Transportation System Planning2:30 pm - 05:00 pmTotal Marks: 70ctions:Attempt all questions.Make suitable assumptions wherever necessary.Figures to the right indicate full marks.	
Q.1	(a)	Describe the salient features of 3 rd road plan in context with regional transportation planning.	07
	(b)	How the saturation system for utility is applied for preparing master plan of roads	07
Q.2	(a) (b)	Describe a multiregional cohort survival model with matrix formulation Minimum need program and employment program	07 07
	(0)	OR	07
	(b)	Define :- (i) homogeneity (ii) concentricity (iii) conformity (iv) link (v) mobility (vi) connectivity (vii) terminals	
Q.3	(a)	Explain by drawing flow diagram shopping model	07
	(b)	Enlist and explain different road patterns OR	07
Q.3	(a) (b)	Explain by drawing sketch structure of Lowry model Give broad classification of urban goods movement with pattern of demand	07 07
Q.4		The following data was collected for planning of road development program For an undeveloped area (i) Total area= 9650 km² (ii) agriculture and developed area=3250km² (ii) existing railway track=96km. assume development allowance=12% The number of villages and towns with population range is as follows Population range <500, 501-1000,1001-2000 2001-5000 >5000 No. of villages & towns 590 280 130 40 08 Existing length of metalled road=322km Existing length of unmetalled road=405km Calculate additional length of metalled and un metalled roads as per Nagpur road plan	14
OR			
Q.4	(a) (b)	Enlist the steps involved in regional network planning Discuss the concentric ring and central place theory of regional planning	07 07

Q.5 (a) Describe with all parameters Hansan accessibility Model (b) What are the desirable features of regional analysis and development models OR

Q.5 The area of a certain district in India is 13400 sqkm. And there are 12 towns as Per 1981 census. Determine the length of different categories of roads to be provided as per 2001 year as per 3rd 20 year road plan recommendations
