Sea	t No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER II (OLD) – • EXAMINATION – SUMMER 2016	
Sul	bject	Code: 1721303 Date:19/05/2 Name: REGIONAL & MASS TRANSPORTATION SYSTEMS	
Instructions:		2:30 am to 01:00 pm Total Marks: 70 ons:	
Q.1	2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. What is regional planning? What are the types of regions? Discuss about birth, aging and migration models.	07 07
Q.2	(a) (b)	Discuss about efficient planning of urban mass transportation system. Which problems are faced by freight transportation in an urban area? OR	07 07
Q.3	(b) (a) (b)	Explain employment forecasting by different methods. Discuss about planning and design of truck terminal. Write in brief: i. Need of transport models ii. Freight demand	07 07 03 04
Q.3	(a) (b)	OR Discuss about urban mass transit routing and scheduling procedure. Explain concept of rural road network development.	07 07
Q.4	(a) (b)	Explain population forecasting by different methods. Discuss about demographic models. OR	07 07
Q.4	(a) (b)	Discuss cohort survival model in detail. Explain Lowry model with advantages and limitations of the method.	07 07
Q.5	(a) (b)	Discuss role of transport models in transportation system planning. Write in brief: i. Transit classification	07
0.5		ii. Evaluation of transport network OR	04
Q.5	(a) (b)	Enlist transport models in practice and discuss important considerations for selection of landuse models. Write in brief:	07

Classification of routes

Prediction of transit usage

i.

ii.

03

04