GUJARAT TECHNOLOGICAL UNIVERSITY ME - SEMESTER– II(Old course) • EXAMINATION (Remedial) – WINTER- 2015 Subject Code: 1721303 Date: 11/12/2015 Subject Name: REGIONAL & MASS TRANSPORTATION SYSTEMS PLANNING				
Tir	me:2	:30 pm to 5:00 pm Total Marks: '	Total Marks: 70	
Inst	tructio 1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Discuss various methods of population forecasting. Discuss Cohort survival model in detail.	07 07	
Q.2	(a) (b)	Explain employment forecasting models. Write transit classification with brief description of various transit modes. OR	07 07	
	(b)	Write in brief: i. Problems faced by goods traffic ii. Problems created by goods traffic	03 04	
Q.3	(a) (b)	<ul> <li>Write in brief: <ol> <li>Types of regions</li> <li>Types of rural roads</li> </ol> </li> <li>Discuss the issues of regional freight transportation.</li> </ul>	03 04 07	
Q.3	(a) (b)	OR Explain Regression analysis model for regional transportation development. Discuss methodology adopted for estimation of goods movement demand.	07 07	
Q.4	(a) (b)	Discuss need, issues and role of transport models in transportation systems planning. Discuss important considerations for selection of landuse models.	07 07	
Q.4	(a) (b)	OR Discuss Hansen's accessibility model. Write in brief:	07	
		<ul><li>i. Assumptions of density saturation gradient method.</li><li>ii. Advantages of Lowry model.</li></ul>	03 04	
Q.5	(a)	Give classification of urban freight transportation with spatial distribution of goods.	07	
0.5	(b)	Discuss need of major and minor truck terminals considered for planning. OR	07	
Q.5	(a) (b)	Explain different road network pattern with sketches. Discuss routing and scheduling of bus transit system in urban area.	07 07	

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