Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER IV (NEW) – • EXAMINATION – WINTER 2016

Subject Code: 2741304 Subject Name: Public Transportation Planning Time: 02:30 pm to 05:00 pm Instructions: Date: 26/10/10/10/10/10/10/10/10/10/10/10/10/10/			Date: 26/10/2016	
		70		
		Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Enlist and explain the principles of transit network planning. What are the important considerations for intercity and regional transit system planning? Explain for passenger and freight movements.	07 07	
Q.2	(a) (b)	Describe any one method to predict transit usage with suitable example. Explain the recent advancement in bus technology with mention of features thereof.	07 07	
	(b)	OR Enlist and briefly describe: Basic operating elements of a Bus Rapid Transit System.	07	
Q.3	(a) (b)	Explain the transit system efficiency (productivity) indicators. Discuss the consideration for curvature and radius while planning for a Light Rail Transit System.	07 07	
Q.3	(a) (b)	OR Explain the step-by-step process for proposing scheduling of a service of any one mode of public transport. Elaborate the concept of ridership projection illustrating for any one mode.	07 07	
Q.4	(a) (b)	Explain the right-of-way for various mass transit systems. Prepare a note on Controlled-access stations. OR	07 07 07	
Q.4	(a) (b)	Enlist and briefly discuss with diagrams: Single line station platform types. Prepare a layout of an LRT yard with narration of components.	07 07	
Q.5	(a)	Explain the basic transit system performance measures with a relationship diagram.	07	
	(b)	Prepare a note on: Automatic train operation (ATO). OR	07	
Q.5	(a) (b)	Discuss the rail transit costs. Prepare a note on vehicle/train travel control and automation.	07 07	
