GUJARAT TECHNOLOGICAL UNIVERSITY ME- SEMESTER II– EXAMINATION – SUMMER 2015

		272130 /20	
Subject Name: Transportation System ManagementTime: 2:30 PM - 5:00 PMTotal Marks: 70Instructions:Total Marks: 70			
	1. F 2. M 3. F	irst question is compulsory while write any Four from remaining six. lake suitable assumptions wherever necessary. igures to the right indicate full marks. upport your answer with suitable sketches & flow diagrams.	
Q.1	(a) (b)	What is transportation system management? What information will be needed to manage transportation system? How is such information obtained? Explain the importance of Video cameras & loop detectors in collecting	07
		information for managing Traffic?	07
Q.2	(a)	improving the capacity & efficiency of road network?	07
	(b)	Urban area?	07
Q.3			07
	(b)	corridor in managing problems related to mass transit system?	07
Q.4	(a)	network system?	07
	(b)	Explain the contribution of channelization in managing Traffic flow & reducing conflicts?	07
Q.5		What is congestion pricing? How, where & why is it provided? Write a note on "One way street a traffic management plan."	07
	(b)	while a note on "One way street a traine management plan.	07
Q.6	(a)	What is flaring at intersections? How does it influence the saturation flow rate & Queuing at signalized intersections?	07
	(b)	What are bottlenecks? What are its causes? Suggest methods to mitigate bottle necks caused due to slow moving vehicles	07
Q.7	(a)	Discuss signal coordination an effective tool to manage traffic along arterials with many signalized intersections?	07
	(b)	Justify "Segregation of Traffic an effective tool for managing traffic." How could it be attained?	07
