Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 2741302 Subject Name: Transportation Facility Design			Date:04/05/2016	
Tiı	ne:10	2:30 am to 01:00 pm Total Marks:	70	
Inst	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Explain the functions of various Transportation Terminal Explain the pedestrian underpass. Describe the importance factors to be taken in to consider for planning of it.	07 07	
Q.2	(a) (b)	What is at grade intersection? Enlist different type of it with sketches. Explain the warrants for deciding a signal intersection and rotary intersection at a particular intersection? OR	07 07	
	(b)	What are the functions of the Airport Passenger Terminal? State Principal user classes of the Airport Passenger Terminal.	07	
Q.3	(a) (b)	Explain the concept of inland port. Draw Rotary intersection showing various elements and state advantages of it. OR	07 07	
Q.3	(a)	Explain the design criteria for separate tracks (non-motorized transport) and Pedestrians.	07	
Q.4	(b) (a)	Explain Importance of horizontal and vertical alignments in Highways. Explain process flow charts of passenger & goods terminals.	07 07	
Ų.T	(b)	Explain importance of accessibility and mobility component in design of transportation facilities.	07	
Q.4	(a)	Write a short note on: Landscaping and safety considerations for design of highway.	07	
	(b)	What circumstances Foot over bridge is justified? Explain the advantages and disadvantages of foot over bridge.	07	
Q.5	(a) (b)	State the different services required at shipping terminals. What is actuated signals? Explain the advantages and disadvaantages of actuated signals.	07 07	
Q.5	(a) (b)	OR What is Signal Co-ordination? Enlist different type of Co-ordinated signal. What do you understand by capacity and level of service of Terminals? Explain briefly.	07 07	
