## GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – I • EXAMINATION – SUMMER • 2014

<b>Subject code: 711304N Date: 21-06-20</b>			
	-	Name: Basics of Transportation Engineering 2:30 pm - 05:00 pm Total Marks: 70	
Ins	struc	tions:	
	2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	Compare the various modes of transportation in terms of basic attributes. Compare the private, public and para-transit system.	07 07
Q.2	(a)	Define - Interzonal trip, Through trip, Trip generation, Trip distribution, Modal split, Desire line, Cordon line	07
	<b>(b)</b>	Explain category analysis method of trip generation.  OR	07
	<b>(b)</b>	Write a short note on õGravity Modelö	07
Q.3	(a) (b)	Explain road user characteristics.  Explain the speed-volume-density relationship with sketch.  OR	07 07
Q.3	(a) (b)	What are the causes of accidents? What are the advantages and dis advantages of rotary intersection?	07 07
Q.4	(a) (b)	What are the types of signals? Explain Differentiate between Flexible pavement and Rigid pavement OR	07 07
Q.4	(a) (b)	Explain the types of failures in rigid pavement. Write a short note on õLos angels abrasion testö	07 07
Q.5	(a) (b)	Write a short note on õESWLö Explain the types of joints in CC pavement OR	07 07
Q.5	(a) (b)	Why is economic evaluation of highway schemes done?  Describe the method of design of overlays for flexible pavement.	07 07

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