Seat No.:	Enrolment No.
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Subject Code: 2721316

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-II EXAMINATION – SUMMER 2015

Date: 03/06/2015

Sub	jeet	Code: 2721510	
Tin	-	Name: Basics of Transportation Engineering 2:30 PM to 05:00 PM Total Marks: 70 as:	
	1. 2.	Attempt all questions. Figures to the right indicate full marks. Make suitable assumptions wherever necessary	
Q.1	(a)	What do you understand by Transportation planning? Explain by drawing flow diagram transportation planning process.	07
	(b)	Discuss about various modes of transportation with their suitability.	07
Q.2	(a)	State the purposes of O-D study. Enlist various methods to conduct O-D survey and discuss any one method in detail.	07
	(b)	Explain briefly about personal and para-transit urban transportation systems. OR	07
	(b)	What are the objectives of traffic volume count? Describe manual method for the same.	07
	(a)	Define :- (i) zones (ii) land use (iii) trip (iv) internal trip (v) terminal time (vi) base year (vii) horizon year.	07
	(b)	Draw the sketch of Rotary intersection and grade separated intersection. OR	07
Q.3	(a)	Explain the term traffic volume. What are its uses? Explain any one method for its measurement in the field.	07
	(b)	Explain PCU Concept and also state the relationship between speed, flow and density with neat diagram.	07
Q.4	(a) (b)	Draw any three sketches of traffic signs. Explain the road user characteristics.	07 07
		OR	
Q.4	(a) (b)	Discuss various points to be considered in planning of an airport. What are the important features of flexible pavement design by CBR method as per IRC: 37-2001.	07 07
Q.5	(a)	Explain briefly the :Marshall Stability Testøprocedure for bituminous mix design.	07
	(b)	Write short note on õEconomic evaluation of Transportation projectsö. OR	07
Q.5	(a)	What are the different types of pavements? Draw sketch of flexible pavements.	07
	(b)	What are the different causes of traffic accidents? Explain various measures to prevent accidents.	07
