GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-VIII • EXAMINATION – WINTER • 2014

PDDC - SEMIESTER-VIII • EXAMINATION – WINTER • 2014								
Subject Code: X 80603						Date: 03-12-	2014	
Subject Name: Urban Transportation System								
Time: 02:30 pm - 05:00 pm					Total Marks: 70			
Instructions: 1. Attempt all questions.								
		Attempt all questions. Make suitable assumptions wherever necessary.						
	3. Figures to the right indicate full marks.							
Q.1	(a)							
X	(b)							
Q.2	(a)	Write a short note on "Road side Interview survey"						
	(b)	Define – Trip Generation, Trip Distribution, Modal Split, Trip Assignment						
	(b)	OR Explain factors affecting Modal Split 0'						
03	(a)							
Q.3	(a) (b)	Discuss about the Logit Model for Mode choice 0 Write a short note on "Gravity Model" 0						
		OR						
Q.3	(a)	Compare trip modal and trip interchange modals in the modal split analysis. 0						
	(b)	Develop the trip production equation and calculate all the relevant statistics to check the validity of the equation using the following data						
		Household	3	4	5	6	6	
		size						
		Trips per	9	10	12	13	10	
.		day						
Q.4	(a) (b)	What are the methods of Trip distribution? Explain any one method in detail.07Write a short note on "All or nothing method"07						
	(0)	OR						
Q.4	(a)	Define – Corridor, Segment capacity, Screen line, Home based trips, Zone 07						
	(b)	Differentiate between BRT and METRO. 0'						
Q.5	(a)	Explain the aggregate and dis aggregate approach to travel demand						
	(b)	Enlist the methods of Trip Generation. Explain any one. 07 OR						
Q.5	(a)	What are the three basic attributes of any Transportation system? Explain						
	(b)	Explain – Monorail Transportation System 0'						
