

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) EXAMINATION - SUMMER 2019

Subject Code: 170604 Date: 10/05/2019

Subject Name: Urban Transportation System

Time: 02:30 PM TO 05:00 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

							MARKS
Q.1	(a) (b)	What is urban transportation system? Discuss goals and objectives of transportation planning? Define: Desire line, interzonal & intrazonal trip, study area, cordonline, screenline, CBD.					
Q.2	(a)	List O-D Survey methods. Explain any one in detail?					07
	(b)	Prepare a Questionnaire for home interview survey to collect household socioeconomic &					
		travel behaviour information.					
		OR Define zone. Discuss various factors to be considered for zone delineation?					
	(b)						
Q.3	(a)						07
		factor method. Future trips for A,B,C,D Zones are 350, 400, 330, and 300 respectively.					
		O\D	A	В	С	D	
		A	50	70	45	80	
		В	90	80	50	55	
		С	60	75	70	40	
		D	50	60	55	60	07
	(b)	What are synthetic trip distribution models? Explain briefly gravity model?					
		OR					
Q.3	(a)						07
	(b) Write a note on linear regression analysis and its significance in travel demand forecast						07
Q.4							04
	(3.)	(ii) Category analysis for trip generation. Give classification of urban roads and give comments about its accessibility and mobility?					
	(b)						
0.4	OR						
Q.4	(a)						04
0.5	(b)						10
Q.5	(a)						07
	(b)						07
		OR					
Q.5	(a)						07
	(b)	Write a note on Pa	ratransit system.				07
