Exam Seat No:_____ C. U. SHAH UNIVERSITY **Summer Examination-2020**

Subject Cod Semester : 7 Instructions: (1) Use (2) Instr (3) Dray	he: Urban Transportation System e: 4TE07UTS1 Date : 05/03/2020 of Programmable calculator & any othe uctions written on main answer book w neat diagrams and figures (if necessar me suitable data if needed.	are strictly to be obeyed.	Marks :70
Q-1 a) b) c) d) e) f) g) h) i) j) k) l) m) n)	Attempt the following questions: What is trip generation? What is transportation planning? What is zoning? Define Urban settlement What is the full form of BRTS? What is Urbanization? Write down the equation of gravity r Enlist the four steps of travel demand Define mobility Define study area Define transportation system Define trip distribution What is transportation survey? Enlist various methods of trip distribution	d modeling.	$(14) \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$

Attempt any four questions from Q-2 to Q-8

Q-2		Attempt all questions	(14)
	a	1. Develop a trip generation equation using negresion analysis for the	7
		following data and the co-efficient of co-relation	

Income of H.H (in 100)	5	20	8	11
Trips per day	12	10	14	10

Explain Modal split Model b

Q-3 Attempt all questions

Describe in brief corridor identification А



7

(14)

7

	В	Develop regression equation				7		
		Population in	10	15	20	22	25	
		zones (in 100)						
		Trips (in 100)	8	10	13	12	15	
0.4		A 44						(14)
Q-4		Attempt all questions						(14)
	A	Explain problems in	urban tra	nsporta	tion in the p	bresent scena	ario	4
	В	1 5 1					6	
	C	working.		1 : . T				4
	С	r B						4
0.5		flow charts						(1.4)
Q-5		Attempt all questions						(14)
	А	List the factor affecting travel demand					6	
	В	Difference between Trip end modal split and Trip interchange modal 4 split					4	
	с	what are the innovati	ons in Ra	apid tra	nsit system			4
Q-6		Attempt all questions		1	2			(14)
	А						7	

P = production A = attraction

Zone	1	2	3
Trip produce	1250	1850	450
Trip attracted	800	1200	3900

The order of closeness

		-	
O/D	1	2	3
1	1	2	3
2	2	1	3
3	2	3	1
4	2	3	4

- Which are the urban forms? Describe characteristics of each related to В 7 the transportation planning. Attempt all questions (14)
- Q-7
 - Describe the basic structures of Transportation system (an over view) 6 А
 - Explain levels of transportation planning В



8

Q-8	Attempt all questions	(14)
а	Explain Bus and Rail transit	7
b	Explain Gravity Model with its calibration.	7

