Enro	llment I	No: Exam C. U. SHAH UNI	Exam Seat No:								
Winter Examination-2019											
Subj	ect Nam	ne : Urban Transportation System									
Subj	ect Cod	e: 4TE07UTS1 Bra	Branch: B.Tech (Civil)								
Seme	ester : 7	Date: 22/11/2019 Tir	me: 10:30 To 01:30	Marks: 70							
(1 (2 (3	2) Instru 3) Draw	of Programmable calculator & any other elections written on main answer book are strong neat diagrams and figures (if necessary) a me suitable data if needed.	rictly to be obeyed.	rohibited.							
Q-1	b) c) d) e) f) g) h) i) j) k) l) m) n)	Attempt the following questions: What is CBD? Define modal split. What are the desire lines? Which government body does population Define Intrazonal trips. Explain urbanization. List out O-D Survey methods. What are the survey data checks? Write the full form of BRTS. Define Screen line survey. What is degree of Urbanization? Define urban area as per Census India. Explain in one sentence – Rural area What is zoning? four questions from Q-2 to Q-8	calculation in India?	(14)							
Q-2	(A) (B)	Attempt all questions Explain the problems in the urban transpondigh vehicle ownership. Define the terms :- (i) Trip (ii) mobility (v)Base year (vi) Origin & destination (viii)	iii)Accessibility (iv)Ho								
Q-3		Attempt all questions	J	(14)							

- Attempt all questions Q-3
 - (A) Write short note on: All or nothing assignment method.
 - Prepare a Questionnaire for home interview survey to collect household (B) socioeconomic & travel behaviour information.
- Attempt all questions Q-4 (14)
 - Explain with formula giving each parameters 'Gravity model' for trip (A) distribution.
 - (B) What is trip generation? Explain factors governing trip generation and trip attraction rates.



Q-5		Attempt all questions								
_		Explain steps involved in Transportation Planning Process with flow chart.								
fl										
D										
Dflow c	harts.									
	(B)	What are the famous modes of travel at urban level? Describe the factors affecting modal split.								
Q-6		Attempt all	-					(14)		
¥ °	(A) Explain Gravity Model with its calibration.							(1.)		
	(B)	· · · · · · · · · · · · · · · · · · ·								
	accessibility and mobility?									
Q-7	·							(14)		
	(A)	What do you understand by route assignment? Explain various traffic								
	assignment techniques briefly.									
	(B)	Develop a trip generation equation and find the value of population from								
		following da	owing data for particular study area.							
		Income	05-10	10-15	15-20	20-25	25-30			
		/month								
		Trip per	14	10	7	10	9			
0.0		day.	· ·					(1.4)		
Q-8 Attempt all questions								(14)		
(A) Write a note on Ahmedabad BRTS project with its opera(B) Distinguish between trip end model and trip interchange							_			
							el.			

