Enrollment No: Exam Seat No: C. U. SHAH UNIVERSITY Winter Examination-2022						
Subject Name : Urban Transportation System						
Subject Code: 4TE07UTS1			Branch: B.Tech (Civil)	Branch: B.Tech (Civil)		
Semes	ter: 7	Date: 25/11/2022	Time: 11:00 To 02:00	Marks: 70		
Instructions: (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed.						
Q-1 A	ttempt all	questions		(14)		
b) c) d) e) f) g) h) i) j) k) l) m)	Write the What is to Define trans What do Define ex What is z Define de Give Class List out C Define ru What are	trazonal trips. full form of BRTS. he relation between mobilitavel forecasting. you mean by Travel Time Impressway.	Ratio?			
Attempt any four questions from Q-2 to Q-8						
Q-2 A	ttempt all	questions		(14)		
a) b)	ownersh Differen Attempt al Describe What are	ip. tiate monorail and metrora Il questions e in brief corridor identifica		of high vehicle (7) (7) (14) (7) (7) (14)		



Prepare a Questionnaire for home interview survey to collect householdsocioeconomic

What is Zoning? Discuss the points to be kept in mind while doingzoning.

b)

& travel behaviour information.

(7)

(7)

Q-5 Attempt all questions

(14)

- Define the terms :- (i) Trip (ii) mobility (iii) Accessibility (iv) Horizon year (v) Base year (vi) Origin & destination (vii) Travel forecasting.
- Write detail procedure for road side interview survey. b)

(7)

Q-6 Attempt all questions

(14)

The following information was collected during transportation survey of study Area. a)

Travel	Population	Total trips generated
zone	(in thousands)	(in hundreds)
1	24	15
2	20	12
3	33	18
4	23	14
5	29	16
6	22	15
7	31	16
8	22	12

Develop the linear regression equation for estimating trip generation.

(7)

b) What is transportation planning process? Draw flow chart various step.

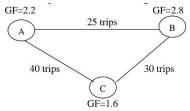
(14)

(7)

Q-7 Attempt all questions

a) The three zones A, B, and C are shown in the figure with trip interchanges. Using Fratar method, compute the zonal interchanges for the forecast year.

(7)



b) Explain corridor identification and corridor screen line analysis.

(7)

Q-8 Attempt all questions

(14)

(7)

- a) Write short notes on: (i) Screen line check (ii) Diversion curve method.
- (7)
- b) Explain with formula giving each parameters 'Gravity model' for trip distribution.

