Seat No.:	Ennalment Ma
Sear NO.	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

~		BE - SEMESTER-	VI(NE	W) EXA	MINATIO			
•		Code:3160608				1	Date: 20-12	2-2022
Subject Name:Urban Transportation Planning Time:02:30 PM TO 05:00 PM Total Ma Instructions:				rks:70				
	2. 3.	Attempt all questions.  Make suitable assumptions Figures to the right indicat	e full m	arks.	-			
	4.	Simple and non-programm	able sc	ientific cal	lculators a	re allowe	d.	MARKS
Q.1	(a) (b) (c)	Define: Mobility, Accessibility, Through Trip Draw a flow chart and explain various steps involved in transportation. Discuss the levels of urban transportation planning with neat sketch.						
Q.2	(a) (b)	* *	_	-	be kept in	mind w	hile doing	03 04
	(c)	What are the applications of conducting O.D survadvantages and disadvan	ey and	l explain				07
	(c)	Discuss the various grow Disadvantages.	th facto	OR or method	s with thei	r advanta	ages and	07
Q.3	(a)	*						03
	(b) (c)	Explain role of transporta Define Trip. Explain the generation and Trip attra	various	s factors g				04 07
Q.3	(a)	Write a short note on Tra	vel der	OR nand fore	castino			03
<b>Q.</b> .5	(b)							04
	(c)	Briefly explain urban ma and disadvantages.	ss rapio	d transit sy	ystem with	their ad	vantages	07
Q.4	(a)	Write short note on All o	r nothi	ng assignr	nent meth	od.		03
	<b>(b)</b>	<u> </u>						04
	(c)	per day for a particular ze equation and check its va	one of s	_			-	07
		Average household size	2	3	4	5	6	
		Total Trips made per day	4	6	7	8	10	
Q.4	(a)	Write short note on Dive	rsion c	OR urve meth	od			03
<b>7.7</b>	, ,							03
	<b>(b)</b>	What is sampling? Discu	ss vario	ous type o	ı sampımg	38		<b>U4</b>

(c) The distribution of present trips among the zones A, B and C are given in O-D matrix below. The future trips generated (T<sub>i</sub>) are also given in the last column. Distribute the future trips among the zones using uniform growth factor method.

D D	A	В	С	$T_{i}$
A	60	100	200	360
В	100	20	300	1260
С	200	300	20	3120

Q.5	(a)	Define urban area and rural area.	03
	<b>(b)</b>	Write a short note on Urban Goods Movement.	04
	(c)	Explain basic road patterns in the urban area with the help of sketches.	07
		OR	
Q.5	(a)	Enlist and explain the objectives of Transportation planning.	03
	<b>(b)</b>	Describe corridor identification and screen line identification.	04
	(c)	What do you mean by Para-transit? Explain the various types of Para-	07
	` ′	transit.	

\*\*\*\*\*

**07**