Name:

**Enrolment No:** 



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES **End Semester Examination, May 2022**

**Course: Urban Transport Planning** Semester: VI Program: B. Tech Civil, Elective-4 Time : 03 hrs. **Course Code: CIVL 3043** Max. Marks: 100

	SECTION A (5Qx4M=20Marks)		
S. No.		Marks	CO
Q 1	Explain the following terms.  i. Problem definition  ii. Goals & Objectives  iii. Constraints  iv. Intervention	5	CO1
Q 2	Briefly write on application of traffic assignment with respect to a metropolitan city.	5	CO2
Q 3	Discuss the concept of modal split between Trip Generation and Trip Distribution via a flow diagram.	5	CO3
Q 4	Draw a conceptual desire line diagram.	5	CO4
	SECTION B		-
	(4Qx10M= 40 Marks)		
Q 5	Write about a few urban transportation challenges and how can you resolve it?	10	CO3
Q 6	What is meant by zoning? Estimate trip rate for a residential land use with 2744 thousands of square feet and 6574 person trips.	10	CO1
Q 7	What is a land use system and transportation system? Explain the land use and transportation model.	10	CO2
Q 8	A. What is MRTS? Discuss its challenges with the help of an example(s).  OR  B. Explain the requirements of MRTS and explain the types in case of India.	10	CO4
	SECTION-C (2Qx20M=40 Marks)		
Q 9	A. Calculate and tabulate the inter-zonal trips using Fratar growth factor method as first approximation:	20	CO4

	OD	A	В	С	D			
	OD	A	Б	C	D			
	A	-	10	12	18			
	В	10	-	14	14			
	С	12	14	-	6			
	D	18	14	6	-			
	Growth factor	2	3	1.5	1			
B. A self-containdustrial arthat, for the generated by diagram. Cahome to wo	20	CO4						