**R16** 

Code No: **R164201E** 

Set No. 1

## IV B.Tech II Semester Regular/Supplementary Examinations, June – 2022 URBAN TRANSPORTATION PLANNING ENGINEERING

(Civil Engineering)

Time: 3 hours Max. Marks: 70 Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any FOUR questions from Part-B \*\*\*\* PART-A (14 Marks) 1. a) What are travel attributes? [2] b) What is sampling? [2] c) Define trip generation. [2] d) What is aggregate approach? [3] e) What is skimming tree? [2] f) What is corridor deficiency? [3] PART-B (4x14 = 56 Marks)2. a) What are the travel characteristics in an urban area? [7] Discuss about sequential aggregate models. [7] Define study area. What are the factors to be considered while selecting the external cordon line for an urban transportation study? [7] b) How the secondary sources are utilized in the data analysis for transportation planning. [7] 4. a) Explain various types of Growth factor methods. [7] Discuss about Gravity model. [7] 5. a) What is binary logit model? Explain. [7] Explain the aggregate models used in mode choice analysis. [7] 6. a) Explain various capacity restraint techniques used in traffic assignment. [7] What are the basic elements of transport networks? [7] Explain the travel forecasts to evaluate alternative improvements. 7. a) [7] b) Discuss about corridor deficiency analysis. [7]

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## PART-A (14 Marks)

1.	<ul><li>a)</li><li>b)</li><li>c)</li><li>d)</li><li>e)</li><li>f)</li></ul>	What is travel demand? What is expansion factor? What is trip attraction? What is maximum utility? Write a short note on route properties. What is the necessity of travel forecasts?	[2] [2] [2] [3]
	1)		[3]
		$\underline{PART-B} (4x14 = 56 Marks)$	
2.	a)	Explain the significance of transportation planning in India?	[7]
	b)	Discuss about aggregate and disaggregate techniques.	[7]
3.	a)	Explain the procedure for carrying out Home interview survey.	[7]
	b)	What are the points to be considered, while dividing the study area into zones for	[.]
		transportation planning?	[7]
4.	a)	What is Category analysis? What are the assumptions made in the categorization	
	u)	of households?	[7]
	b)	Describe the factors governing trip generation and attraction rates.	[7]
5.	a)	What is multinomial logit model? Explain.	[7]
	b)	Explain various mode split models.	[7]
6.	a)	Explain in detail about various traffic assignment techniques.	[7]
	b)	What is the purpose of traffic assignment and what are the general principles	
		involved?	[7]
7.	a)	Explain how you will identify potential corridor in urban transit system.	[7]
1.	a) b)	Discuss about pivot point analysis.	[7]
	$\sigma_j$	Discuss acout prior point unarysis.	L']