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Code: 13A01801

B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2017

URBAN TRANSPORTATION PLANNING

(Civil Engineering)

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - (a) What is the use of desire lines?
 - (b) What do you understand about horizon year & base year?
 - (c) Write the factors affecting trip generation.
 - (d) Specify advantages & disadvantages of growth factor methods.
 - (e) Write a short note on benefit cost ratio method.
 - (f) Write a short note on scope of urban transport planning.
 - (g) Explain in brief the factors affecting the mode split.
 - (h) Write down the advantages of pre distribution models.
 - (i) Mention the factors' selection for urban transport study area.
 - (j) What are the surveys required for planning process?

PART - B

(Answer all five units, $5 \times 10 = 50 \text{ Marks}$)

UNIT - I

What are the various methods of conducting O-D surveys? Explain in detail.

OF

3 Explain about the relation between land use and travel.

(UNIT - II

Write about the transportation planning process and explain stages in transportation planning process with a flow chart.

OR

5 Explain about the road side interview survey.

UNIT - III

What is trip generation? Explain in detail the factors governing trip generation and attraction rates.

OR

7 The target year productions and relative attractiveness of the four zone city have been estimated as in table 1.

	Table 1					
Zone	Productions	ns Attractiveness				
1	1500	0				
2	0	3				
3	2600	2				
4	0	5				

Table 2					
i	1	2	3	4	
1	5	10	15	20	
2	10	5	10	15	
3	15	10	5	10	
4	20	15	10	5	

The calibration of gravity model for a city estimated the parameter n as 2 and all socio-economic adjustment factors k to be equal to unity. Apply gravity model to estimate all target interchanges and to estimate the total target year attractions of each zone given that the target year inter-zonal impedances are given in table 2.

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UNIT - IV

8 What is modal split? Explain factors affecting modal split.

OR

9 What is trip assignment? State various models of trip assignment. What is the outcome of trip assignment? Explain.

UNIT - V

10 Explain about points to be considered in evaluation of transportation projects.

OR

11 Explain about different methods of economic evaluation.

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