R13

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

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

Table 1					
Zone	Productions Attractivene				
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 WW. WANARESULTS. CO. IN

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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.
