USN | | | | | | | | | | 　　　　　　　　　　　　　　　　　　　**10CV843**

Eighth Semester B.E. Degree Examination, June/July 2017
Urban Transport Planning

Time: 3 hrs. 　　　　　　　　　　　　　　　　　　　　　　　　Max. Marks:100

Note: *Answer any FIVE full questions, selecting atleast TWO questions from each part.*

PART – A

1　a. Define "System Approach". Explain the system approach to transport planning with a flow diagram. 　　　　　　　　　　　　　　　　　　　　　　　**(10 Marks)**
　　b. Explain the Interdependence of Land use and Traffic. 　　　　　　　**(10 Marks)**

2　Define :
　　a. Trip Generation.
　　b. Trip Purpose.
　　c. Trip Distribution.
　　d. Modal Split.
　　e. Trip Assignment. 　　　　　　　　　　　　　　　　　　　　　　　**(20 Marks)**

3　a. Explain Zoning and Study area. 　　　　　　　　　　　　　　　　　**(10 Marks)**
　　b. Explain the surveys that are usually carried out during Urban Transport Planning. **(10 Marks)**

4　a. What are the factors Governing Trip Generation and Attraction rates? 　**(10 Marks)**
　　b. Explain Multiple Linear Regression Analysis used in Trip Generation. Give examples. 　　　　　　　　　　　　　　　　　　　　　　　　　　　　**(10 Marks)**

PART – B

5　a. Explain any two growth factor methods and any one synthetic method. 　**(10 Marks)**
　　b. Estimate the future trip distribution by Furness method from the following data : **(10 Marks)**

O D	1	2	3	4	Future Trips
1	10	20	15	18	140
2	21	16	17	14	150
3	30	21	25	27	200
4	10	9	16	13	100
Future Trips	150	120	180	160	

6　a. What are the factors affecting modal split? 　　　　　　　　　　　　**(08 Marks)**
　　b. Draw the flow diagram for modal split carried out between Trip Generation and Trip Distribution and explain. 　　　　　　　　　　　　　　　　　　　**(12 Marks)**

7　a. List the different Assignment Techniques and explain any one Assignment techniques. 　　　　　　　　　　　　　　　　　　　　　　　　　　　　**(10 Marks)**
　　b. Discuss on Traffic Assignment Applications in India. 　　　　　　　**(10 Marks)**

8　a. Explain the difficulties in Transport Planning. 　　　　　　　　　　**(10 Marks)**
　　b. Discuss about Recent case studies on Urban Transport Planning. 　　**(10 Marks)**

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