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