



P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Civil Engineering

Semester End Examination; May / June - 2018

Urban Transport Planning

Time: 3 hrs

Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

- 1 a. Discuss interdependence of the land use and traffic. 10
 b. Write the flow diagram of stages in transport planning process. 10
 2 a. Explain the system approach to transport planning using in flow chart. 10
 b. Explain the scope of urban transport planning. 10

UNIT - II

- 3 a. With a neat sketch, Explain about the basic moments in transportation. 10
 b. What is zoning? Explain the factors affecting zoning and how it will help the planning process? 10
 4 a. Explain any five types of surveys carried out in urban transport planning. 10
 b. What do you understand by category analysis? Mention the basic assumptions considered in the analysis. 10

UNIT - III

- 5 a. List the methods available for trip distribution for future. Explain factor method of obtaining future trips. 10
 b. Obtain the future trip table by; 10
 i) Uniform growth factor method ii) Average growth factor method

D O	1	2	3
1	60	100	200
2	100	20	300
3	200	300	20

- 6 a. Explain Furness method of trip distribution and criticism of growth factor method. 10
 b. Explain the phases involved in calibration of the gravity model. 10

UNIT - IV

- 7 a. What are trip assignment techniques? Describe capacity restraint assignment. 10
 b. Write the flow diagram for modal split carried out between trip generation and trip distribution. 10
 What are the advantages of pre-distribution modal split?
 8 a. What will the recent development in model split analysis? 10
 b. Explain 'Moore's algorithm of finding shortest path of traffic assignment. 10

UNIT - V

- 9 a. What are the types of intermediate public transport vehicles in India? List down the characteristics of IPT modes. 10
- b. What is the computer application in transport planning? 10
- 10 a. What are the difficulties in the transport planning for small and medium cities? 10
- b. What is the role of metro rail in urban public transport? 10

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