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E – 5451

Reg. No. :

Name :



**Eighth Semester B.Tech. Degree Examination, October 2018
(2008 Scheme)**

08.807.5 : Elective – V : TRANSPORTATION PLANNING (C)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

- I. a) Briefly explain the systems approach in transportation planning process.
- b) Define study area and zoning.
- c) What are the objectives of conducting O-D surveys ?
- d) List the factors influencing trip generation.
- e) What do you mean by category analysis ? What are the assumptions in category analysis ?
- f) Discuss the concept of growth factor models.
- g) Compare all or nothing and capacity restraint traffic assignments.
- h) Write a note on detrimental effects of traffic on environment.

(5×8=40 Marks)

PART – B

Answer **one** question from **each** Module.

Module – I

- II. a) Describe the various elements of transportation planning process.
- b) Explain how the goals, objectives and standards are formulated in transportation planning process.

20

OR

P.T.O.



- c) What is desire line chart ? Mention its importance in transportation planning process.
- d) What is the purpose of conducting cordon survey ? Explain the procedure of conducting cordon surveys. 20

Module – II

- III. a) Explain how demographic and social factors influence the demand for urban travel.
- b) Distinguish between the trip based and activity based approaches of travel demand modeling. 20

OR

- c) What is trip distribution ? Discuss the factors influencing trip distribution. Mention the disadvantage of growth factor method of trip distribution.
- d) Using Fratar method, find the future trip distribution for the given three zone system.

D O	A	B	C
A	80	100	200
B	100	30	300
C	200	300	40

20

Module – III

- IV. a) What are the purposes of trip assignment ? Explain how trip assignment of a public transportation system is carried out.
- b) Explain the factors influencing model choice. 20

OR

- c) Explain the factors influencing model choice.
- d) Write a note on Intelligent Transportation Systems. 20