USN											
-----	--	--	--	--	--	--	--	--	--	--	--

10CV843

Eighth Semester B.E. Degree Examination, Dec.2016/Jan.2017 Urban Transport Planning

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART - A

a. Explain the Inter dependency of Land use and traffic.

(10 Marks)

b. Explain the system Approach to Urban Transport planning.

(10 Marks)

2 a. Explain two important stages in Urban Transport planning.

(10 Marks)

b. Write short notes on:

i) Trip generation

ii) Trip Assignment.

(10 Marks)

- a. Define 'External Cordon Line'. Give four important factors considered while selecting external cordon line. (06 Marks)
 - b. Define 'zone'. Mention the various factors considered in dividing whole are into zones.

(06 Marks)

c. Explain how the Home – interview surveys are carried out.

(08 Marks)

- 4 a. Explain the various factors governing trip generation and attraction rates. (10 Marks)
 - b. What is category Analysis? What are the assumptions made in category Analysis? What are its advantages? (10 Marks)

PART - B

5 a. Explain any two growth factors methods trip distribution.

(10 Marks)

b. The number of trips produced in and attracted the three zones 1, 2, and 3 are tabulated as follows:

Zone	1	2	3	Total
Trips produced	14	33	28	75
Trips attracted	33	28	14	75

The order of closeness of zones is shown in the following matrix

OD	1	2	3
1	1	2	3
2	2	1	3
3	2	3	1

The zonal L factors are given below

٧.						
	Zone	L – Factors				
	1	0.04				
	2	0.02				
	3	0.04				

Distribute the trips between zones by the intervening opportunities model technique.

(10 Marks)

6 a. Explain the various factors affecting the modal split.

(10 Marks)

- b. With a flow chart explain the modal split carried out after trip distribution with its advantages and disadvantages. (10 Marks)
- 7 a. Write short notes on:
 - i) Minimum path tree
 - ii) All or Nothing Assignment.

(10 Marks)

b. Explain features of Lowry Model with a flow chart.

(10 Marks)

- 8 Write short notes in the following:
 - a. Difficulties in transport planning
 - b. Diversion curves
 - c. Quick Response transport planning technique
 - d. Gravity model.

(20 Marks)

