



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**

- 1 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)
- 3 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

	D	1	2	3
O				
1		1	2	3
2		2	1	3
3		2	3	1

The zonal L factors are given below

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)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.