GBGS SCHEME USN

15CT832

Eighth Semester B.E. Degree Examination, June/July 2019 **Urban Transport Planning**

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Explain the Interpendence of Land use and traffic.

(08 Marks)

b. Explain the scope of Urban transport planning.

(04 Marks)

Define 'System Appraoch''.

(04 Marks)

OR

- Explain the surveys that are usually carried out during Urban Transport Planning. (08 Marks)
 - Explain Zoning and study area.

(08 Marks)

Define: i) Trip Generation ii) Trip Distribution iii) Modal Split iv) Trip Assignment.

(08 Marks)

Explain factors governing Trip Attraction and Trip generation.

(08 Marks)

- Explain Multiple Linear Regression analysis used in trip generation. Give examples.

Explain the assumption made in categories analysis.

(08 Marks) (04 Marks)

Explain Non – home based trip.

(04 Marks)

Module-3

Estimate the future trip distribution by average factor method form following data: 5

(10 Marks)

O D	-1	2	3	Pi	Pi	Ei = Pi/Pi
1	60	100	200	360	360	1
2	100	20	300	420	1260	3
3	200	300	20	520	3120	6
aj	360	420	520	1300	4740	
Aj	360	1260	3120			
$Ej = \frac{Aj}{ai}$	1	3	6			
aj		7				

b. Explain Synthetic method in trip distribution.

(06 Marks)

Explain any two growth factor method.

(08 Marks)

Explain Gravity model. And also list the criticism of Growth Factor method.

(08 Marks)

Module-4

Define Modal split and explain the factors affecting modal split.

(08 Marks)

b. Draw the flow diagram for modal split carried out after the trip distribution and explain the same

(08 Marks)

(08 Marks)

OR

Explain the advantages and disadvantages of Pre – distribution modal split. (08 Marks) Explain the importance and necessity of the model split in urban transport planning. (04 Marks) Explain Lowry model in trip assignment. (04 Marks) Module-5 Explain the difficulties in transport planning. 9 (08 Marks) Explain Urban transport planning in medium cities. (08 Marks) OR Discuss about Recent case studies on Urban Transport Planning. 10 (08 Marks) List out the various applications of traffic assignment and describe briefly.