

Code No: **R164201E**

R16

Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, June – 2022
URBAN TRANSPORTATION PLANNING ENGINEERING

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any FOUR questions from Part-B

PART-A (14 Marks)

1. a) What are travel attributes? [2]
b) What is sampling? [2]
c) Define trip generation. [2]
d) What is aggregate approach? [3]
e) What is skimming tree? [2]
f) What is corridor deficiency? [3]

PART-B (4x14 = 56 Marks)

2. a) What are the travel characteristics in an urban area? [7]
b) Discuss about sequential aggregate models. [7]
3. a) Define study area. What are the factors to be considered while selecting the external cordon line for an urban transportation study? [7]
b) How the secondary sources are utilized in the data analysis for transportation planning. [7]
4. a) Explain various types of Growth factor methods. [7]
b) Discuss about Gravity model. [7]
5. a) What is binary logit model? Explain. [7]
b) Explain the aggregate models used in mode choice analysis. [7]
6. a) Explain various capacity restraint techniques used in traffic assignment. [7]
b) What are the basic elements of transport networks? [7]
7. a) Explain the travel forecasts to evaluate alternative improvements. [7]
b) Discuss about corridor deficiency analysis. [7]

