

Code No: **R164201E**

**R16**

**Set No. 1**

**IV B.Tech II Semester Regular/Supplementary Examinations, July - 2021**

**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*

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**PART-A (14 Marks)**

1. a) What is travel demand? [2]
- b) What is expansion factor? [2]
- c) What is trip attraction? [2]
- d) What is maximum utility? [2]
- e) Write a short note on route properties. [3]
- f) What is the necessity of travel forecasts? [3]

**PART-B (4x14 = 56 Marks)**

2. a) Explain the significance of transportation planning in India? [7]
- b) Discuss about aggregate and disaggregate techniques. [7]
3. a) Explain the procedure for carrying out Home interview survey. [7]
- b) What are the points to be considered, while dividing the study area into zones for transportation planning? [7]
4. a) What is Category analysis? What are the assumptions made in the categorization of households? [7]
- b) Describe the factors governing trip generation and attraction rates. [7]
5. a) What is multinomial logit model? Explain. [7]
- b) Explain various mode split models. [7]
6. a) Explain in detail about various traffic assignment techniques. [7]
- b) What is the purpose of traffic assignment and what are the general principles involved? [7]
7. a) Explain how you will identify potential corridor in urban transit system. [7]
- b) Discuss about pivot point analysis. [7]

