

Code No: R164101E

R16

Set No. 1

IV B.Tech I Semester Regular Examinations, October/November - 2019

TRAFFIC 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 is spot speed? [2]
- b) What is interrupted traffic? [3]
- c) What is signal coordination? [2]
- d) Define air pollution? [2]
- e) Define possible capacity? [2]
- f) Name the categories of IVHS. [3]

PART-B (4x14 = 56 Marks)

2. a) Write down the step by step procedure for moving observer method. [7]
- b) What are the uses of speed studies? [7]
3. a) Discuss various microscopic and macroscopic density characteristics. [7]
- b) What are distance headway characteristics? Explain. [7]
4. a) Explain IRC guidelines for designing traffic signals. [7]
- b) Discuss about road safety audit. [7]
5. a) Explain various detrimental effects of traffic noise on the environment. [7]
- b) What are the acceptable levels of noise? [7]
6. a) What is level of service? What are various factors affecting capacity and level of service of highways? [7]
- b) Explain the capacity of two lane rural highways without access control. [7]
7. a) Describe the applications of IVHS in traffic engineering. [7]
- b) Discuss about IVHS categories. [7]