

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*

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**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 is air pollution? [2]
- e) Define is 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]

