

CBCS SCHEME

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15CV561

Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019 Traffic Engineering

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. In detail explain the road user characteristics. (08 Marks)
b. Derive an expression for flow and concentration using Green-shield theory. (08 Marks)

OR

- 2 a. Explain the details of vehicle characteristics affecting road design. (08 Marks)
b. Explain urban traffic problems and measure to meet the problems. (08 Marks)

Module-2

- 3 a. Briefly explain the various causes of accidents. (08 Marks)
b. Define the term spot speed. Explain the presentation of spot speed data. (08 Marks)

OR

- 4 a. Explain the preventive measures to reduce accidents. (08 Marks)
b. Explain the importance and methods of traffic forecasting. (08 Marks)

Module-3

- 5 a. Enumerate the design factors and advantages of rotary intersection. (10 Marks)
b. Write short notes on: i) Road markings ii) Channelized intersections. (06 Marks)

OR

- 6 a. What are the advantages and disadvantages of traffic signal? (08 Marks)
b. Explain traffic signal design as per IRC method. (08 Marks)

Module-4

- 7 a. Explain various design factors of highway lighting. (10 Marks)
b. Explain the various detrimental effect of traffic noise. (06 Marks)

OR

- 8 a. List and explain different types of lighting layouts. (08 Marks)
b. Explain the measure to control the traffic noise. (08 Marks)

Module-5

- 9 a. Discuss the details of traffic system management. (08 Marks)
b. List and explain the various phases of traffic regulation. (08 Marks)

OR

- 10 Write short notes on:
a. TDM b. ITS
c. Traffic congestion d. Road pricing system. (16 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.