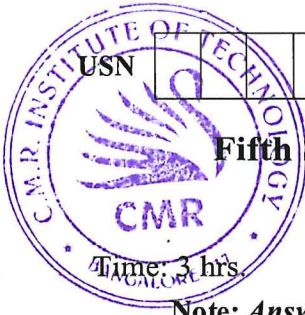


# CBCS SCHEME

17CV561



## Fifth Semester B.E. Degree Examination, July/August 2022 Traffic Engineering

Max. Marks: 100

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

### Module-1

- 1 a. Briefly explain various load user characteristics. (10 Marks)  
b. With the neat sketch explain power performance of vehicle. (10 Marks)

OR

- 2 a. Derive an expression for flow and concentration using green shield theory. (10 Marks)  
b. Explain urban traffic problems and measures to meet problems. (10 Marks)

### Module-2

- 3 a. With neat sketch explain the concept of level of service. (10 Marks)  
b. Briefly explain various methods for accidents analysis. (10 Marks)

OR

- 4 a. Explain the concept of speed journey and delay survey. (10 Marks)  
b. Explain the following : i) Origin destination survey ii) Parking survey. (10 Marks)

### Module-3

- 5 a. Write short notes on : i) Channelization ii) Grade separated intersection. (10 Marks)  
b. Explain the step by step procedure to design a Rotary intersection. (10 Marks)

OR

- 6 a. Explain briefly on networking pedestrian facility and cycle track. (10 Marks)  
b. Write short notes on : i) Road marking ii) Traffic signal. (10 Marks)

### Module-4

- 7 a. Explain briefly various causes for accidents. (10 Marks)  
b. Explain the measures to control traffic noise. (10 Marks)

OR

- 8 a. Explain briefly different types of lamps used for street – lighting. (10 Marks)  
b. Write short notes on : i) Public transportation ii) Non motorized traffic. (10 Marks)

### Module-5

- 9 a. List and explain the importance of ITS in traffic engineering. (10 Marks)  
b. Write short notes on : i) Area traffic management ii) Traffic system management. (10 Marks)

OR

- 10 a. Explain briefly on travel demand management. (10 Marks)  
b. Explain on congestion and parking pricing. (10 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.

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