Code: CE7T4C

IV B.Tech - I Semester – Regular/Supplementary Examinations March 2021

TRAFFIC ENGINEERING
(CIVIL ENGINEERING)

Duration: 3 hours   Max. Marks: 70

PART – A

Answer *all* the questions.   All questions carry equal marks

11 x 2 = 22 M

1. a) Define the term Speed of a vehicle.

   b) Explain the concept of PCU.

   c) What are the objectives of traffic volume studies?

   d) Define highway capacity.

   e) What are the regulation concerned to driver?

   f) What are the peripheral parking schemes?

   g) Explain the concept of park and ride.

   h) List out the pollutants due to traffic.

   i) List out the informative signs.

   j) What are the types of road markings?

   k) Define principle of road safety audit.

PART – B

Answer any ***THREE*** questions.   All questions carry equal marks.

$$3 \times 16 = 48 \text{ M}$$

2. a) Explain the relationship among the various traffic parameters.   8 M

   b) Explain the data collection and presentation of traffic volume studies.   8 M

3. a) What are the factors affecting highway capacity?   8 M

   b) Explain the concept of different level of service of a highway.   8 M

4. a) Discuss the analysis of parking data and parking characteristics.   8 M

   b) What is the importance of traffic control and regulations?
                                                              8 M

5. a) Discuss the measures to reduce the noise pollution.   8 M

   b) Explain the various types of traffic signs.   8 M

6. a) What are the standards and specifications for road markings?   8 M

   b) Discuss the types of road accidents and their causes.   8 M