PVP 14

Code: CE7T4C

IV B.Tech - I Semester – Regular/Supplementary Examinations
October - 2019

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) Derive the relationship among traffic parameters.
b) Draw the volume flow diagram at intersections.
c) What are the factors affecting PCU?
d) Explain the concept of service volume.
e) Define peak hour factor.
f) Write down the regulations concerning driver.
g) Define parking load and parking volume.
h) Define noise pollution.
i) What are the general requirements of traffic control devices?
j) Write a note on lane markings and object markings.
k) Write a short note on road safety audit.

PART – B

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

3 x 16 = 48 M

2. a) Discuss the basic characteristics of traffic in detail. 8 M

b) Spot speed studies were carried out at a stretch of highway and the consolidated data is as shown below. Determine i) speed limits and ii) Design speed 8 M

Speed range Kmph	No of vehicles	Speed range Kmph	No of vehicles
0 to 10	12	50 to 60	255
10 to 20	18	60 to 70	119
20 to 30	68	70 to 80	43
30 to 40	89	80 to 90	33
40 to 50	204	90 to 100	9

3. a) Explain the design of capacity. 8 M

b) Write a note on regulations of traffic. 8 M

4. a) Write a note on parking survey by patrolling method. 8 M

b) Discuss the importance of traffic control and regulation. 8 M

5. a) Write a note on regulatory and informatory signs. 8 M

b) Describe the effect of air pollution due to traffic on environment. 8 M

6. a) Write a note on common type of pavement markings. 8 M

b) Explain accident studies in detail. 8 M