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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech III Year I Semester Regular Examinations December-2021

ELEMENTS OF ROAD TRAFFIC SAFETY

(Open Elective- III)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a Give a detailed discussion about accident situation in India with past accident data. L2 6M
b Analyze the various road geometric design elements and how they are related to cause Road accidents. L3 6M

OR

- 2 a Bring out the various legislation and education measures to be adopted in prevention of road accidents. L1 6M
b Give the detailed notes on cost of road accidents. L1 6M

UNIT-II

- 3 a Explain about speed zoning and criteria considered to determine speed zoning. L2 6M
b What are the needs for traffic regulation? L1 6M

OR

- 4 a What are the various ill-effects of parking? Write them in detail. L1 6M
b Give a brief discussion about different types of Off-street parking facilities. L2 6M

UNIT-III

- 5 a What are the various objectives in general principles of traffic signing? L1 6M
b Briefly explain about traffic signs situation in India? L2 6M

OR

- 6 a Briefly discuss about mandatory signs with neat sketches. L2 6M
b Write the conditions for placing the overhead signs. L1 6M

UNIT-IV

- 7 a What is meant by traffic signals? What are the advantages & disadvantages of it? L1 6M
b What is meant by signal face, explain it with neat sketch? L1 6M

OR

- 8 a How amber period, red/amber period and Intergreen period is determined in various countries practices? L1 6M
b Briefly explain the different types of co-ordinate signal system. L2 6M

UNIT-V

- 9 a What are the functions of road markings & List out all 14 various types of road markings? L1 6M
b Briefly explain about the stop lines with neat sketch? L2 6M

OR

- 10 a Briefly explain about the illumination of traffic rotaries with detailed sketch. L2 6M
b Define the following terms: L1 6M

i) Luminous flux & Lumen ii) Steradian iii) Lighting system

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