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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**B.Tech III Year I Semester Supplementary Examinations August-2022****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 Explain about the engineering uses in collection of accident data. L2 6M
 b How results are interpreted on road accidents in various countries. List the fatality rates from different countries? L1 6M

OR

- 2 a Come out with brief explanation about parking and its influence on road accidents. L2 6M
 b Apply your knowledge to suggest the preventive measures for road accidents by cyclist. L2 6M

UNIT-II

- 3 a Give the discussion about the regulation of speed at night. L2 6M
 b What are the various enforcement methods and instruments used for detection of speed violators? L1 6M

OR

- 4 a Explain about the various rules adopted in concern to traffic for cyclist and pedestrians. L2 6M
 b Identify the various common methods in design of On-street parking with sketches. L1 6M

UNIT-III

- 5 a Give a detailed discussion about the different types of traffic signs. L2 6M
 b Briefly discuss about warning signs with neat sketches. L2 6M

OR

- 6 a Discuss about informatory signs and route marker signs with neat sketch. L2 6M
 b Describe in detail about the location, height & maintenance of traffic signing. L2 6M

UNIT-IV

- 7 a Briefly explain the concept of signal indications in various country practices. L2 6M
 b What is meant by warrants for signals and explain in detail about different types of warrants laid by I.R.C.? L1 6M

OR

- 8 a List out the various traffic control methods & explain any four of them in detail? L1 6M
 b What is meant by signal approach dimensions and explain how to determine approach dimensions for a two phase cross-roads? L1 6M

UNIT-V

- 9 a What is meant by pedestrian crossings and explain it with neat sketch? L1 6M
 b Explain briefly about carriageway width reduction transition markings with neat sketch. L2 6M

OR

- 10 a Briefly explain about the various types of lamps used in street lighting in view of road traffic safety at night time on roads? L2 6M
 b Write in detail about lighting at bends. L1 6M

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