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

B.Tech IV Year I Semester Supplementary Examinations August-2021

ELEMENTS OF ROAD TRAFFIC SAFETY

Open Elective

(Common to All)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 Develop your answer about the following elements in view of causing road accidents. 12M
- | | |
|----------------|----------------|
| i) The vehicle | ii) The driver |
| iii) Speed | iv) Weather |

- 2 Identify the various measures to be taken into account while designing of road elements in order to prevent the road accidents. 12M

UNIT-II

- 3 a What are the various enforcement methods and instruments for detection of speed Violators? 6M
- b Compare and discuss about Speed limits in rural and urban areas. 6M

OR

- 4 a Explain in detail about various general rules should be adopted in concern to traffic. 6M
- b What are the ill-effects of parking? 6M

UNIT-III

- 5 a Why traffic signs require international standardization? 6M
- b Draw different types of Warning signs with necessary specifications. 6M

OR

- 6 a Briefly explain the importance of traffic signs. 6M
- b Draw different types of Prohibitory & Mandatory signs by indicating necessary specifications. 6M

UNIT-IV

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

OR

- 8 a List out various traffic control methods & explain any two of them in detail. 6M
- b Why co-ordination of signals is needed and give its objectives. 6M

UNIT-V

- 9 a What are the functions of road markings & List out the various types of road markings? 6M
- b Explain the concept of stop lines with neat sketch. 6M

OR

- 10 a Why street lighting is needed for road users. 6M
- b Briefly explain about various types of lamps used in street lighting in view of road traffic safety at night time on roads. 6M

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