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

B.Tech III Year II Semester Regular Examinations July-2021

ELEMENTS OF ROAD TRAFFIC SAFETY

(Open Elective-I)

Time: 3 hours

Max. Marks: 60

PART-A

(Answer all the Questions 5 x 2 = 10 Marks)

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|---|---|---|----|----|
| 1 | a | How the different factors of roads contribute in accidents? | L2 | 2M |
| | b | Define traffic congestion. | L1 | 2M |
| | c | Define reassurance marker signs. | L1 | 2M |
| | d | What are the types of co-ordinate signal system? | L1 | 2M |
| | e | Illustrate about directional arrow. | L1 | 2M |

PART-B

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

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|---|---|---|----|----|
| 2 | a | Explain about the engineering uses in collection of accident data. | L2 | 5M |
| | b | How results are interpreted on road accidents in various countries? List the fatality rates from different countries. | L1 | 5M |

OR

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|---|---|--|----|----|
| 3 | a | Come out with brief explanation about parking and its influence on road accidents. | L2 | 5M |
| | b | Apply your knowledge to suggest the preventive measures for road accidents by cyclist. | L1 | 5M |

UNIT-II

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|---|---|---|----|----|
| 4 | a | List out the various Traffic Laws as per Indian Motor Vehicle Act. | L1 | 5M |
| | b | Explain about speed zoning and criteria considered to determine speed zoning. | L2 | 5M |

OR

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|---|---|--|----|----|
| 5 | a | Explain about the various rules adopted in concern to traffic for cyclist and pedestrians. | L2 | 5M |
| | b | What are the various ill effects of parking in detail? | L1 | 5M |

UNIT-III

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

OR

- 7 a Discuss about Informatory signs and Route marker signs with neat sketch. L2 6M
 b Write the conditions for placing the overhead signs. L1 4M

UNIT-IV

- 8 a Briefly, explain the concept of signal indications in various country practices. L2 5M
 b What does signal face mean? Explain it with neat sketch. L1 5M

OR

- 9 a How Amber period, Red/Amber period and Intergreen period is determine in various countries practices? L1 5M
 b List out the various traffic control methods & Explain any four of them in detail. L1 5M

UNIT-V

- 10 a What are the functions of road markings & List out the types of road markings? L1 5M
 b Explain briefly about obstruction approach markings with neat sketches. L2 5M

OR

- 11 a Why street lighting is needed for road users? L1 4M
 b Briefly, explain about the various types of lamps used in street lighting in view of road traffic safety at nighttime on roads. L2 6M

END