

Q.P. Code: 16CE143

Reg. No: 

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

**B.Tech IV Year I Semester Supplementary Examinations February-2022**

**ELEMENTS OF ROAD TRAFFIC SAFETY**

(Open Elective)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

1 Apply your knowledge as a graduate and how you suggest various measures to be considered in view of controlling the Road Accidents. 12M

2 Analyze various road geometric design elements and how they are related to cause of Road accidents. 12M

**UNIT-II**

3 a What are the basic principles of Traffic regulation? 6M  
b List out various Traffic Laws. 6M

OR

4 a What are the ill-effects of parking? 6M  
b Briefly explain about zoning and parking space requirement standards. 6M

**UNIT-III**

5 a What are the various general principles of traffic signs? 6M  
b Briefly explain about traffic signs situation in India. 6M

OR

6 Give a brief discussion about Location, Height & Maintenance of traffic signs. 12M

**UNIT-IV**

7 Explain briefly about Fixed-Time signals and Vehicle-Actuated signals. 12M

OR

8 What is meant by Warrants for signals and explain in detail about different types warrants laid by IRC. 12M

**UNIT-V**

9 a Briefly explain how the lightning system is arranged at rotary intersections with neat sketch. 6M

b Explain the concept of lighting at bends with necessary recommendations. 6M

OR

10 Explain about the following terms in view of Street lighting. 12M

i) Mounting height

ii) Spacing of lanterns

iii) Single-sided lantern

iv) Central mounting lantern

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