

**Reg. No:**

--	--	--	--	--	--	--	--	--

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

**B.Tech IV Year I Semester Regular Examinations Nov/Dec 2019**

**ELEMENTS OF ROAD TRAFFIC SAFETY**

(Common to All)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a Write down the brief discussion about accidents situation in India. **6M**  
b Analyze various road geometric design elements related to cause of road accidents. **6M**

**OR**

- 2 a Write down the various legislations to be adopted to prevent the road accidents. **6M**  
b Explain how vehicle parking influences on the road accidents. **6M**

**UNIT-II**

- 3 a What is the meaning of off street parking? Write any 3 types of street parking? **6M**  
b Briefly explain about the zoning and parking space requirement standards. **6M**

**OR**

- 4 a What are the basic principles of Traffic regulation? **6M**  
b Explain about the speed zoning. **6M**

**UNIT-III**

- 5 a Draw neat sketches on Overhead signs and Route marker signs. **6M**  
b What are the various general principles of traffic signs? **6M**

**OR**

- 6 a Draw different types of Mandatory signs by indicating necessary specifications. **6M**  
b Give a brief discussion about Location & Height of traffic signs. **6M**

**UNIT-IV**

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

**OR**

- 8 a Why co-ordination of signals is needed and gives its objectives? **6M**  
b Briefly explain the concept of signal indications. **6M**

**UNIT-V**

- 9 a Explain the concept of lighting at bends with necessary recommendations. **6M**  
b What is meant by pedestrian crossings explain with neat sketch. **6M**

**OR**

- 10 a Explain in brief the carriageway width reduction for transition markings. **6M**  
b What are the functions of road markings & List out the various types of road markings? **6M**

\*\*\* END \*\*\*