O.P.Code: 20CE0148 | R20 | H.T.No. | | | | | | | | | | |

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

B.Tech IV Year I Semester Regular Examinations February-2024
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		Apply your knowledge as a graduate and how you suggest various measures to be considered in view of controlling the Road Accidents.	CO1	L3	12M
		OR			
2		Bring out the various legislation and education measures to be adopted in prevention of road accidents.	CO1	L1	12M

UNIT-II

3	a	What are the needs for traffic regulation?	CO2	L1	6M
	b	Explain about speed zoning and criteria considered to determine speed zoning.	CO2	L2	6M
		OR			
4	a	List out the various Traffic Laws as per Indian Motor Vehicle Act.	CO2	L1	6M
	b	Briefly explain about zoning and parking space requirement of IRC standards.	CO2	L2	6M

UNIT-III

5	a	Explain briefly about commonly used materials and colours in road markings.	CO3	L2	6M
	b	Briefly explain about the stop lines with neat sketch?	CO3	L1	6M
		OR			
6	a	Why street lighting is needed for road users?	CO3	L2	5M
	b	Define the following terms: i) Luminous flux & Lumen ii) Steradian iii) Lighting system	CO3	L1	7M

UNIT-IV

7	a	Why traffic signing requires International standardization?	CO4	L2	6M
	b	Briefly explain about traffic signs situation in India.	CO4	L1	6M
		OR			
8	a	Briefly explain about Indication signs with neat sketch?	CO4	L2	6M
	b	Write the conditions for placing the overhead signs.	CO4	L1	6M

UNIT-V

9	a	Briefly explain the concept of signal indications in various country practices.	CO5	L2	6M
	b	Write a note on pedestrian signal indications.	CO5	L1	6M
		OR			
10	a	What do you mean by Area traffic control and give the objectives of it?	CO5	L1	6M
	b	Give a brief discussion about Delay at signalized intersections.	CO5	L2	6M

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