O.P.Code: 19CE0129

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H.T.No.

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

B.Tech III Year I Semester Supplementary Examinations June-2024 ELEMENTS OF ROAD TRAFFIC SAFETY

(Common to all Branches)
Open Elective-III

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Tin	ie: 3 Hours	Max.	Mark	rs: 60
(Answer all Five Units $5 \times 12 = 60$ Marks)				
	UNIT-I			
1	a Briefly explain about road accidents and how traffic engineers play a	CO1	L1	7M
	role in the prevention of road accidents.			
	b Explain about the engineering uses in the collection of accident data.	CO 1	L2	5M
	OR			
2	a Give a detailed discussion about accident situation in India with past	CO1	L2	6M
	accident data.			
	b Identify the various measures to be taken into account to prevent the	CO1	L2	6M
	accident caused by i) Two-wheeler driver ii) Pedestrian.			
	UNIT-II			
3	a What are the needs for traffic regulation?	CO2	L1	6M
	b List out the various Traffic Laws as per the Indian Motor Vehicle Act.	CO2	L1	6M
	OR	002		OIVI
4	a Give the discussion about the regulation of speed at night.	CO2	L2	6M
-	b Discuss the various speed limits in rural and urban areas.	CO2	L2	6M
	UNIT-III	002		OIVE
=	· · · · · · · · · · · · · · · · · · ·	CO2	T 1	43.4
5	a Write the importance of traffic signs. b. What are the various chiestives in general principles of traffic signing?	CO3	L1	4M
	b What are the various objectives in general principles of traffic signing?	CO3	L1	8M
(OR	001	τ Δ	(N/I
6	a Briefly explain about Indication signs with neat sketch.	CO3	L2	6M
	b Write the conditions for placing the overhead signs.	CO ₃	L1	6 M
	UNIT-IV			
7	How Amber period, Red/Amber period and intergreen period is determined	C04	L1	12M
	in various countries practices?			
	OR			
8	a What do you mean by Area traffic control and give the objectives of it?	CO ₄	L1	6M
	b Give a brief discussion about Delay at signalized intersections.	C04	L2	6M
	UNIT-V			
9	What are the functions of road markings? List out all 14 various types of	CO5	L1	12M
	road markings.			
OR				
10	a Explain briefly about tunnel lighting.	CO ₅	L2	6M
	b Write in detail about lighting at bends.	CO5	L1	6M
	*** END ***			