R18

Q.P. Code: 18CE0127

Re	g.]	No:	
		SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)	
		B.Tech III Year II Semester Supplementary Examinations February-2022	
		ELEMENTS OF ROAD TRAFFIC SAFETY (Open Elective-I)	
Tim	e· 3	hours Max. Mar.	ke: 60
1 111	ic. 3	PART-A	K3. 00
		(Answer all the Questions $5 \times 2 = 10$ Marks)	
1	a	What are the preventive measures for accidents?	2M
	b	Illustrate roof parking.	2M
	c	Define route numbering.	2M
	d	Write about flashing amber.	2M
	e	What is lighting? Discuss its importance.	2M
		PART-B	
		(Answer all Five Units $5 \times 10 = 50$ Marks) UNIT-I	
2	a	Give a detailed discussion about accident situation in India with past accident data.	5M
	b	Analyze the various road geometric design elements and how they are related to cause road accidents.	5M
		OR	
3	a	Identify the various measures to be taken into account to prevent the accident caused by	5M
		i) Two wheeler driver ii) Pedestrian	
	b	Apply your knowledge as a graduate and how you suggest various measures to be	5M
	~	considered in view of controlling the road accidents?	OTVE
4	a	Explain the various aspects, which are indicated in regulation of vehicles.	5M
	b	Discuss about the various speed limits in rural and urban areas. OR	5M
5	a	Briefly explain about zoning and parking space requirement of IRC standards.	5M
	b	Identify the various common methods in design of On-street parking with sketches. UNIT-III	5M
6	a	Give a detailed discussion about the different types of traffic signs.	5M
	b	Why traffic signing requires International standardization? OR	5M
7	a	Briefly explain about Indication signs with neat sketch.	5M
	b	Describe in detail about the Location, Height & Maintenance of traffic signing. UNIT-IV	5M
8	a	Write a note on pedestrian signal indications.	4M
H	b	Explain the concept of illumination of signals with specifications. OR	6M
9	a	What is meant by Warrants for signals and explain in detail about different types of warrants laid by I.R.C.?	5M
	b	What do you mean by Area traffic control and give the objectives of it? UNIT-V	5M
10	a	Explain briefly about commonly used materials and colours in road markings.	5M
	b	What is meant by pedestrian crossings and explain it with neat sketch?	5M

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OR

11 a Briefly explain about the illumination of traffic rotaries with detailed sketch.
b Write in detail about lighting at bends.
6M
4M

END