Code: 19CE4601C

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III B.Tech - II Semester - Regular Examinations - JUNE 2022

TRAFFIC ENGINEERING (CIVIL ENGINEERING)

Duration: 3 hours Max. Marks: 70 Note: 1. This question paper contains two Parts A and B. 2. Part-A contains 5 short answer questions. Each Question carries 2 Marks. 3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks. 4. All parts of Question paper must be answered in one place. PART - A 1. a) Define spot speed. b) How is Rural Highway capacity defined? c) Define the terms: Parking Load, Parking Index d) What is the purpose of warning signs? e) What is road safety audit? PART - B UNIT - I a) What are the characteristics of road users? 6 M b) Explain manual method for determining the spot speed. 6 M OR a) Explain the relationship between speed, volume and density. 6 M b) Indicate how the traffic volume data are presented and the results used in traffic engineering. 6 M

<u>UNIT – II</u>

4.	a)	Explain the operating conditions of level of service as	
	• .	per HCM manual.	6 M
	b)	Explain about the Regulation of vehicle.	6 M
		OR	
5.	a)	Explain various factors affecting capacity and level of	
		service of roads.	6 M
	b)	Explain about the Regulation Concerning driver.	6 M
		<u>UNIT-III</u>	
6.	a)	With the help of neat sketches, show various on street	
		parking configurations indicating all the features.	6 M
	b)	Write a detailed note on traffic problems in urban areas.	6 M
		OR	
7.	a)	Explain when to adopt for off street parking facility.	6 M
	b)	Explain about the following	
		i) Importance of enforcement and punishment	
		ii) Goal and objectives of enforcement of regulations.	6 M
		<u>UNIT – IV</u>	
8.	a)	Explain the effects of traffic noise on the environment?	
		What are the acceptable levels of sound level?	6 M
	b)	Explain various warning signs as per IRC with sketch.	6 M
		OR	
9.	a)	What are various measures for controlling air pollution?	6 M
	b)	Classify the Informatory type of traffic signs and	
		mention the general objective of each type of sign.	
		Explain them with neat sketches.	6 M

$\underline{UNIT - V}$

10.	a)	Write about the following:	
		i) Pedestrian crossing marking	
		ii) Markings at approach to intersections.	6 M
	b)	List and explain the various engineering measures to be	
		adapted to reduce the rate of road accidents.	6 M
		OR	
11.	a)	Write a short note on the following with neat sketches	
		i) No overtaking zone marking	
		ii) Marking of stop lines.	6 M
	b)	What are the different causes of traffic accidents?	
		Discuss briefly.	6 M