M.E. First Semester (Civil Engineering (Transpo. Engg & Manag.) (New CGS)

13103: Traffic Engineering and Field Studies: 1 SFTR 1

	Pages : ne : Thi	1 aree Hours * 0 3 1 5 *	AU - 3330 Max. Marks : 80	
	Note	es: 1. All question carry equal marks. 2. Answer any five questions. 3. Assume suitable data wherever necessary. 4. Illustrate your answer necessary with the help of neat sketches. 5. Use of pen Blue/Black ink/refill only for writing book.		
1.	Attempt any two.			
		a) Explain the terms i) PCU ii) AADT	8	
		b) Explain in brief road users characteristics of traffic.	8	
		 Explain in brief vehicular characteristics of traffic. 	8	
2.	a)	Define the terms - Spot speed - Space mean speed - Time mean speed	8	
	b)	Explain in brief - O-D study - speed and delay study	8	
3.		Attempt any two.		
		 Explain in brief – the various design factors that are to be consintersection design. 	idered in rotary 8	
		 Explain in brief – traffic regulations and control. 	8	
		 c) Explain in brief – signal system and coordination. 	8	
4.	a)	The average normal flow of traffic on cross roads A and B during design pe 250 PCU per hour, the saturation flow values on these roads are estimated a PCU per hour resp. The all red time replaced for pedestrian crossing is 12 phase traffic signal by Webster's method.	s 1250 and 1100	
	b)	Explain with neat sketches - various types of conflicts at intersections in tra	affic movement. 8	
5.		Attempt any two.		
		 a) Define Highway capacity? State the factors affecting capacity & LOS 		
		b) Write the equation for practical capacity of Rotary and explains the te		
		c) State the advantages & limitation of Rotary.	8	
6.	a)	Explain in brief - LOS - Critical hour concept	8	
	b)	Explain the causes of generation of noise due to road traffic.	8	
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