Γ	Reg. No.
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Question Paper Code: 99102

B.E. / B.Tech DEGREE EXAMINATION, NOV 2024

Professional Elective

Civil Engineering

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	19UCE902	2 – TRAFFIC ENGINNE (Regulations	ERING & MANAGEMENT 2019)		
Dur	ation: Three hours		Maximu	ım: 100 Marks	
		Answer All qu	estions		
		PART A - (5 x 1	= 5Marks)		
1.	Speed and Delay study is conducted by which of the following me /instrument?			CO1 - U	
	(a) Floating car metho	d	(b) Works pot interview n	nethod	
	(c) Doppler Radar		(d) Electronic Detector		
2.	Upper speed limit for	regulation is		CO1-U	
	(a)15 th percentile speed	d	b)98 th percentile speed		
	c)85 th percentile speed		D)60 th percentile speed		
3.	The provision of traffi	CO1- U			
	(a) reduces right angled and rear end collisions				
	(b) increase right angle	ed and rear end collisions	S		
	(c) reduces right angle	d collision but may incre	ase rear end collision		
	(d) reduces rear end co	ollisions but may increase	e right angled collisions		
4.	The brake efficiency in	CO1- U			
	(a) 95%	(b) 96%	(c) 99%	(d) 100%	
5.	Traffic forecast is not	CO1-U			
	(a) GDP	(b) Industrial output	(c) Population	(d) Weather	
		PART – B (5 x 3=	= 15Marks)		
6.	Difference between Tr	raffic volume & Density		CO1- U	

7.	Wha	hat are the various types of traffic signs?						CO1- U	
8.	Giv	e the conflict poi	CO2	- App					
9.	Wha	at are the safety	CO2	-App					
10.	Wha	at is meant by PO	CU. Enlist	the PCU va	lue accordi	ng to IRC.	CO1	- I J	
10.	,,,,,,,	15 111 0 1110 0 j 1 0		PART – C		_	001		
11.	(a)	with Density.						(16)	
	(b)	Or As a Traffic engineer, List the major difference between the various types of Daily Volume.					CO4 - Ana	(16)	
12.	(a)	As a Traffic En	ngineer develop the suitable intersection for newly hal Highway.				CO3 - App	(16)	
	(b)	For designing a North-South are is permitted the cycle is 12s.Ca approach.	CO3 - App	(16)					
		Parameter	North	South	East	West			
		Design hour flow(PCU/h)	1000	700	900	550			
		Saturation flow(PCU/h)	2500	2500	3600	3000			
13.	(a)	An the need for types of Coord		•		ontrol and list the	CO1 - U	(16)	
	(b)						CO1 - U	(16)	
14.	(a)	Illustrate the necessity of Accident studies. Explain the various causes of Accidents.				CO3 - App	(16)		
				Or					
	(b)	How to detect camera?	vehicles	in a captui	red photo	by normal digital	CO3 - App	(16)	

15. (a) Suggest the type of sensors suitable for road traffic intensity CO3 - App detection? (16)

Or

(b) Discuss the necessity of Transportation system management. CO3 - App (16)