A

Reg. No.:					

Question Paper Code: 59105

B.E./B.Tech. DEGREE EXAMINATION, MAY 2018

Elective

Civil Engineering

15UCE905 - Traffic Engineering and Management

(Regulation 2015)

Duration: Three hours Maximum: 100 Marks

Answer All Questions

PART A - (10x 1 = 10 Marks)

1.	Traffic Flow is		CO1- R
	(a) Static	(b) Dynamic	
	(c) Both Static and Dynamic	(d) None of the above	
2.	The distance between two consecutive vehice	CO1- U	
	(a) Space Headway (b) Time Headway	(c) Jam Density	(d) Traffic flow
3.	Coordinated Signal System is		CO2- R
	(a) 3-phase system	(b) Linking adjacent s	ignals
	(c) 2-phase system	(d) None of these	
4.	FLEXIPROG system is a		CO2- U
	(a) Flexible program	(b) Flexible possible	
	(c) Flexible Progressive	(d) Traffic analysis	

5.	The most important objective of Traffic Engineering is						
	(a) consider pedestrians as obstruction			(b) Reduce accidents			
	(c) Increase traffic		(d) Provide high speed road				
6.	In India design speed	at rotary is				CO3- R	
	(a) 30 kmph	(b) 40 kmph	(c)	50 kmph	(d) 60 kmph		
7.	The most likely cause	of accidents is				CO4- U	
	(a) Impatient driving			(b) Slow speed			
	(c) pedestrians crossin	ng road		(d) Cattle crossing	road		
8.	Pedestrians can cross	the road				CO4- R	
	(a) Anywhere			(b) Near signals			
	(c) At zebra crossing			(d) None of these			
9.	Traffic System Manag	gement is				CO5- U	
	(a) Short term measure	es to use transport facilit	ies	(b) Long term der	mand		
	(c) Trip assignment m	ethod		(d) None of these			
10.	"PCU" means"					CO5- R	
	(a) Passenger Car Uni	ts		(b) Particular Car U	Units		
	(c) Passenger Car Util	ity		(d) Passenger Capa	acity Units		
		PART – B (5 x	x 2=	10Marks)			
11.	Define Traffic Flow.					CO1- U	
12.	2. What is meant by Optimal Cycle Time in a signal system?					CO2- U	
13.	. Give two examples of significance testing for Traffic Engineering.				CO3- U		

14.	Mer	ntion the types of road accidents.	CO4- U					
15.	5. Mention some of the traffic management measures.			CO5- U				
	PART – C (5 x 16= 80Marks)							
16.	(a)	Derive an equation for car following theory.	CO1-U	(16)				
		Or						
	(b)	Discuss the applications of queuing theory to traffic engineering problems.	CO1 -Ana	(16)				
17.	(a)	What are the advantages and disadvantages of traffic signals? Explain the types of coordinated signal systems.	CO2 -U	(16)				
	Or							
	(b)	Discuss the objectives and methods of Area Traffic Control.	CO2 -Ana	(16)				
18.	(a)	Describe the various methods of traffic volume survey.	CO3- App	(16)				
	Or							
	(b)	Explain Rotary Intersection Design.	CO3- U	(16)				
19.	(a)	Give an account of the causes and types of road accidents.	CO4-U	(16)				
		Or						
	(b)	Bring out the factors that cause accidents and skid resistance.	CO4 -Ana	(16)				
20.	(a)	Discuss the various Traffic Management Measures. Or	CO5- Ana	(16)				
	(b)	Explain the factors affecting Capacity and Level of Service. Also	CO5- U	(16)				
		add a note on the different Levels of Service.						