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Reg. No.:					

Question Paper Code: 49111

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

Elective

Civil Engineering

	2	, 8			
	14UCE911 - TRAFFIC ENGINE	ERING AND MANAGE	MENT		
	(Regulati	ion 2014)			
Dι	uration: Three hours	M	aximum: 100 Marks		
	Answer ALI	L Questions			
	PART A - (10 x	1 = 10 Marks			
1. The mean speed of slow moving vehicle like cycle is					
	(a) 15.63 K.M.P.H	(b) 3.78 K.M.P.H			
	(c) 12.24 K.M.P.H	(d) 4.89 K.M.P.H			
2.	The line of sight of an acute or clear vision	cone is			
	(a) 60° to 70° (b) 20° to 50°	(c) 10° to 12°	(d) 3° to 10°		
3.	AADT is expanded as				
	(a) Average Annual Daily Traffic	(b) Annual Average	(b) Annual Average Daily Traffic		
	(c) Annual Accumulated Daily Traffic	mulated Daily Traffic (d) Accumulated Annual Daily T			
4.	The area under the parking accumulation c	urve during a specified per	riod is called		

(a) Parking volume

(b) Parking load

(c) Parking index

(d) Parking turnover

5. Danger signs are also known as

(a) Prohibitory signs

(b) Indication signs

(c) Mandatory signs

(d) Cautionary signs

6.	is the destination of various section speed limits.	ons of highway for different values of safe			
	(a) Speed zoning (b) Safe speed			
	(c) Speed limits (d) Speed of traffic			
7.	The statistical method current being applied	I in accident research is			
) Adhesion method			
	(c) Regression method (d) Pedestrian method			
8.	Which one of the following is not the major	component of exhaust gas?			
	(a) Carbon dioxide (b	(b) Unburnt petrol			
	(c) Oxides of nitrogen (d) Oxygen			
9.	TSM stands for				
	(a) Transportation system management	(b) Traffic survey management			
	(c) Travel speed management	(d) Traffic signal management			
10.	Which movement is useful for planning a b	ye pass?			
	(a) Internal to Internal	(b) Internal to External			
	(c) External to Internal	(d) External to External			
	PART - B (5 x 2	2 = 10 Marks)			
11.	Define rolling resistance.				
12.	Differentiate aggregate and disaggregate mo	odel.			
13.	List any four advantages of traffic signals.				
14.	Enlist the factors which determines skid res	istance.			
15.	Identify the essential constituents of the elec-	ctron gun.			
	PART - C (5 x 1	6 = 80 Marks			
16.	(a) Discuss in detail about the vehicle char in traffic engineering.	acteristics with its equations and its relevance (16)			
	Oı	•			
	(b) (i) Write in short the significance and				
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	(ii) Explain rolling and air resistance.	(8)			

17.	(a)	Enumerate the different methods of carrying out traffic volume studies.	(16)
		Or	
	(b)	Write a brief note on Parking surveys.	(16)
18.	(a)	Classify the types of traffic signals and explain about it.	(16)
		Or	
	(b)	Elaborate the functions and requirements of traffic control devices.	(16)
19.	(a)	Enumerate the various factors to determine the skid resistance.	(16)
		Or	
	(b)	Discuss the environmental impact of traffic pollution.	(16)
20.	(a)	Write short notes on few of the traffic management measures: (i) Tidal operation (ii) Exclusive bus lane (iii) Restriction on turning movement (iv) Tealming.	
		Or	
	(b)	Explain in detail about some of the well-known traffic management measures.	(16)