Reg. No.:					

(b) Indication signs

(d) Cautionary signs

Question Paper Code: 49111

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

Elective

Civil Engineering

	14UCE911 - TRAFFIC ENGINE	ERING AND MANA	AGEMENT			
	(Regulation	on 2014)				
D	uration: Three hours		Maximum: 100 Marks			
	Answer ALL	Questions				
	PART A - (10 x	1 = 10 Marks)				
1.	Volition is the will to react to a					
		(b) Vehicle(d) Person				
2.						
	(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(c) Annual Accumulated Daily Traffic		(b) Annual Average Daily Traffic(d) Accumulated Annual Daily Traffic			
4.	The number of vehicles parked in a particular area over a given period of time, measurin vehicles per day is					
	(a) Parking accumulation(c) Parking index	(b) Parking du (d) Parking vo				
5.	Danger signs are also known as					

(a) Prohibitory signs

(c) Mandatory signs

6.	Traffic delays can be substantially reduced upto 12% when compared to fixed time plans insystems.						
	(a) EQUISAT	(b) PLIDENT	(c) SCOOT	(d) SPG			
7.	An arrangement in which	n lanterns are placed a	lternatively on either side	e of carriage way			
	(a) Staggered	(b) Central	(c) Opposite	(d) Single-sided			
8.	Acceptable noise level including driver is		e with seating not mor	re than 9 persons			
	(a) 84	(b) 89	(c) 82	(d) 91			
9.	For a one 2 way street junction is	and one 1 way stree	et the point of conflict of	of a vehicles at a			
	(a) 16 points	(b) 7 points	(c) 4 points	(d) 2 points			
10.	Which movement is usef	ful for planning a bye	pass?				
	(a) Internal to Interna		` '	(b) Internal to External			
	(c) External to Intern	al	(d) External to Extern	nal			
		PART - B (5 x $2 =$	10 Marks)				
11.	Define PIEV theory.						
12.	Differentiate aggregate an	nd disaggregate mode	1.				
13.	List any four advantages	of traffic signals.					
14.	Enlist the factors which o	letermines skid resista	ance.				
15.	Write any two advantage	s of closing side stree	ets.				
		PART - C (5 x 16 =	= 80 Marks)				
16.	(a) Discuss in detail abo in traffic engineering		eristics with its equations	s and its relevance (16)			
		Or					
	(b) (i) Write in short the	e significance and sco	ope of traffic engineering	. (8)			
	(ii) Explain rolling a	nd air resistance.		(8)			
17.	(a) Enumerate the differ	ent methods of carryi	ng out traffic volume stu	dies. (16)			

	(b)	Explain the factors affecting capacity and level of service.	(16)				
18.	(a)	Explain in detail, the various types of road markings commonly used with sketches.	neat (16)				
Or							
	(b)	Elaborate the functions and requirements of traffic control devices.	(16)				
19.	(a)	Write briefly the different factors causing accidents.	(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) Tracalming.					
		Or					
	(b)	Write short notes on Road pricing and requirements of good pricing sys	tem. (16)				