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	Roll No			
	CE-8003 (2) (CBGS)			
	B.E. VIII Semester			
	Examination, May 2019			
Choice Based Grading System (CBGS)				
	Traffic Engineering			
	Time: Three Hours			
	Maximum M	larks : 70		
,	empt any five questions.			
	questions carry equal marks.			
iii) Ma	ke suitable assumptions wherever necess	sary.		
1. a) Defin	e:	. 4		
i) C	perating speed			
ii) D	Design speed			
iii) S	pace mean speed			
b) How	do different vehicular characteristics aft	fects road		
featur		6		
	e traffic engineering. What is scope			
engine	eering?	4		
2. a) What	is the need of traffic volume study? Explain	n methods		
of traf	fic volume study.	7		
b) Expla	in the presentation of O-D data with sket	ch. 7		
	OR			
Expla	in PIEV theory with neat sketch.			
3. a) Draw	layout of lighting on:	8		
	ingle side of road			
	oth side of road (staggered)			
,	at T intersection			
	at cross roads	.•		
	in collision and condition diagram. List p			
	are for road accidents.	6		
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4.	a)	Define:				
		 Luminous flux 				
		ii) Lumen				
		iii) Candela	-	•		
	b)	Draw a fundamental dia	agram of traffic f	flow. 4		
	c)					
		factors influencing nigh		6		
5.	a)	Explain the Fundamental factors of night vision. 4				
	b) Discuss the -advantages and limitations of One					
	,	streets.		4		
	c)	Explain various method	ls of on-street pa	rking. 6		
6.	a)	Explain vehicular characteristics considered in traffic				
٠.	/	engineering.	deteriores cons	7		
	b)	• •	each (not to sea	*		
	,	i) Regulatory signs	(2200 10 000	,		
		ii) Warning signs				
		iii) Information signs				
7.	a)	What are the advantage	e and disadvante	gas of providing		
•	ш,	What are the advantages and disadvantages of providing traffic signals?				
b)		Find Time mean speed and space mean speed from				
	٠,	following data.				
			Engage	1 ′		
		Speed range (kmph)	Frequency]		
		0-10	8]		
		10-20	18			
		20.20	26	1		

Speed range (kmph)	Frequency	
0-10	8	
10-20	. 18	
20-30	26	
30-40	30	
40-50	18	

Explain various types of road marking as per IRC.

Discuss the Different types of light sources used for street lighting.

b) Explain the brief study of mass transportation available in the country.

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