Roll No. :

320750(20)

B. E. (Seventh Semester) Examination, April-May 2021

(New Scheme)

(Civil Engg. Branch)

TRAFFIC ENGINEERING

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Part (a) from each question is compulsory.

Attempt any two parts from (b), (c) and (d) of each question.

Unit-I

1. (a) Mention any four main objects of traffic engineering. 2

	(b)	Discuss various problems which the people face due to mixed traffic in developing country like India	7
	(c)	Explain the concept of PCU, describe the factors affecting PCU value.	7
	(d)	Write short note on : (i) Growth of Traffic (ii) Function of Traffic	7
		Unit-II	
2.	(a)	Enoscope is used to find: (i) Average speed (ii) Spot speed (iii) Space - mean speed	
		(iv) Time - mean speed Enlist various road user characteristics. Show their	2
		relation with traffic operations. Briefly explain object of a accident studies and also write the various step involved in traffic accident studies.	7
	(d)	Write short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note on : It was a second of the short note o	

		(ii)	Spot speed		
		(iii)	Space - mean	speed West Supplement	
		(iv)	Time - mean sp	peed who are the outle minde and arth	7
				villae piltant messaman Unit-M	
3.				raffic signal system it:	
-		(i) (ii)	Simultaneous s	ed). Wayware Julyal Harter Syll Dayle	
		(iii)	Flexible progre	essive system	
		(iv)	Simple progres	ssive system	2
	(b)	Ехр	lain traffic signa	l with sketch.	7
	(c)		te a note on roa	d marking and explain various	7
	(d)		out the differen	t traffic Island and explain about	7
			1	Unit-IV	
4.	(a)		most economica narrow roads is Single side light		
		(ii)	Staggered syste	emujugalan juayab ud M (b)	

		(iii) Central lighting system	
		(iv) None of the above	2
	(b)	Explain the effect of road condition and road geo-	
		metrics on traffic safety.	7
	(c)	Explain the steps involved in analysis of traffic accidents.	7
	(d)	Write a detail note on investigation of accident.	7
		Unit-V	
5.	(a)	Noise limit in U. K. in 1970 for motor cycle more	
		than 50 c.c. but not more than 125 c. c. is:	
		(i) 77	
		(ii) 82 (iii) 86	
		(iv) 84 beach of Manyese filles as put up	2
	(b)	Discuss the determental effects of traffic on the	
		environmental.	7
	(c)	Explain various types of vibration induced in the	
		sourrounding by a vehicle moving on a road surface.	
		How can we minimize the effects of vibrations?	7
	(d)	What do you understand by EIA? Explain benefits	
		of EIA.	7