320760(20)

APR-MAY

B. E. (Seventh Semester) Examination, 2020

(Old Scheme)

(Civil Engg. Branch)

TRAFFIC ENGINEERING

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) from each question is compulsory. Attempt any two parts from part (b), (c) and (d) of each questions.

Unit-I

- 1. (a) What are the objective of traffic engineering?
 - (b) Explain the passenger car unit in detail. Describe the PCU values suggested by IRC for different categories of vehicles.

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	(c)	Explain the term 3E's of traffic engineering.	7			Unit-IV	
		Explain the heterogeneous traffic flow and its problem. Unit-II	7	4.	(a) (b)	Explain traffic safety in brief. Describe the various factors to be considered in the design of road lighning.	2 7
2.	(a) (b)	Define AADT. What are the different vehicular characteristics	2		(c)	Explain the various safety measures to increase pedestrain safety.	7
	(c)	which affect the road design? Briefly explain. Enlist the various methods of origin and destination	7		(d)	Explain the effect of road condition and road geometrics on traffic safety.	7
	(0)	studies and explain them.	7			Unit-V	
		Explain the various steps involved in traffic accident studies. Unit-III	7	5.	(a) (b)	Explain types of vibrations. What are the harmful effects of noise pollution on human health?	2
3.	(a) (b)	What do you mean by traffic regulation? Enlist the main advantages of one-way streets.	2 7		(c)	Describe in details about the air pollution due to vehicular traffic in urban areas.	7
	(c)	Explain various types of traffic signs with sketches.			(d)	What are the benefits of EIA?	7
	(d)	What are the various types of traffic markings commonly used?	7			ē a	

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