Roll No.:

.320554(20)

B. E. (Fifth Semester) Examination, April-May/ Nov.-Dec. 2020

more game to deposit our son many of a large

(New Scheme)

(Civil Engg. Branch)

TRANSPORTATION ENGINEERING-II

Time Allowed: Three hours and and

maximum Marks: 80

Minimum Pass Marks: 28

over a class of the converse

Note: All questions are compulsory. Part (a) of each question is compulsory & each carries 2 marks. Attempt any two parts from (b), (c) and (d) of each unit and each warries 7 marks.

Unit-I

1. (a) What is sleep of soil?

2

	[2]	
	(b) Give short notes:	7
	(i) Coning of wheels	
	(ii) Wear of soils	
	(c) Explain the necessity of sleeper in railway track	
	What are the requirements of good sleepers?	7
	(d) Explain why periodic renewal of ballast is necessary?	7
	Unit-II	
2.	(a) What is Cant Deficiency?	2
	(b) Explain the principles of interlocking. Differentiate	
	between ATC and CTC systems.	7
	(c) Derive a relationship of super elevation with gauge	
	speed and radius of the curve.	7
	(d) Give short notes:	7
	(i) Points & Crossings	
	(ii) Widening & gauge on curves	
	Unit-III	
3.	(a) What is free board of bridge?	2

320554(20)

(b) Give short notes: (i) Scoor depth (ii) Collection of bridge design data (c) What do you understand by the term economic span of a bridge? Give brief on it. 7 (d) Explain the necessity of site investigation and planning of bridge. **Unit-IV** 4. (a) What is Tunnelling? 2 (b) Give short notes: 7 Ventilation of tunnels Drainage of tunnel (c) Name the different methods of soft ground tunnelling and describe the American method in detail. 7

(d) Give a brief account on size and shape of railway

7

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[3]

tunnels.

[4]

Unit-V

5.	(a) What is a natural harbour?	2
	(d) Give short notes:	7
	(i) Break water jetties	
	(ii) Ware house	
	(c) What are Dolphins? Describe various types.	7
	(d) Enumerate the key points to decide the layout of a	
	harbour.	7
	nt) When Is Tunnelling?	
	(b) Give short notes	
	(i) Vertilation of rurners	
	file. Undanger of connect.	
	(c) Name the different certificity of soil product uniquiting	
	and describe the American method in detail	
	(d) Give a brief account on size and shape of trillway	
	numele	