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320554(20)

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

(New Scheme)

(Civil Engg. Branch)

TRANSPORTATION ENGINEERING-II

Time Allowed: Three hours

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Gibbs: Em Minimum Pass Marks: 28

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 carries 7 marks.

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1. (a) What is Rearing Rail?

	(ls)	Draw a typical cross section of a double line B.G.	
	(0)	track with electric traction.	7
	(c)	What are the functions of rails? Name various types of rails in use.	7
	(d)	Describe with neat sketches various types of rail.	
		Compare their merits and demerits.	7
		(donna Unit-II Brita)	
2.	(a)	What is Heel Divergent?	2
	(b)	From a main line curve of 4° on a BG track, a branch line of 6° diverges in opposite direction. If the maximum speed permitted on main line is 70 km/h. Calculate the super elevation and maximum	
		speed on branch line.	7
	(c)	Draw a neat diagram of simple left hand turnout and	
		show its various component parts.	7
	(d)	Write short notes on:	7
		(i) Theoretical and actual nose of crossing	
		(ii) Number of crossing and angle of crossing	J
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3.	(a)	Define approaches in a bridge.	2	
T.	(b)	What is the essential information required to be collected for the design of the bridge?	7	
	(c)	How would you estimate the maximum scour depth for any bridge pier?	7	
	(d)	Derive the condition for an economical span, stating clearly the assumption made in derivation.	7	
		Unit-IV		
4.	(a)	Define Pilot Tunnel.	2	
	(b)	What is Tunnel Ventilation? Explain the methods of tunnel ventilation.	7	
	(c)	Describe the method of construction of tunnel in		
		hard rock by full face method.	7	
	(d)	What is Drainage of Tunnels? What is its necessity?	? 7	
Unit-V				
5.	(a)	Define Beacons.	2	
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(b) Draw layout of a typical artificial harbour.
(c) What is Break Water? Enumerate the types of break waters with construction of wound break water.
The Remarks with the manual and some some some some some some
(d) Write short notes on:
(i) Fender
(ii) Transit shed
(iii) Light house
clearly the assumption made in dorivation.
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family falor Trialed (a)
(b) What is about Versibition? Explain the native to of burned ventilation.
(a) Describe the method of construction of round in hard rock by full face method
(d) What is Theimage of Tourists? What is its processiv
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(a) Define Bencons