Hall Ticket Number :					

Code: 7G686

IV B.Tech. II Semester Supplementary Examinations January 2022

Advanced Transportation Engineering

	(Civil Engineering)			
		Time: 3		
Ansv	wer any five full questions by choosing one question from each unit ($5x14$ ************************************	4 = 70 /	Marks)
				Blooms
		Marks	СО	Level
	UNIT-I			
1.	Explain the functions of rails in a permanent way? Discuss the requirements			
	of good rails to satisfy the expected functions?	14M	CO1	L1
	OR			
2.	Define gauge of a railway track. Enumerate different gauges used in India			
	and discuss their suitability at different locations with reasons.	14M	CO1	L1
	UNIT-II			
3.	Describe the factors that influence the selection of site for a Railway station.	14M	CO2	L2
	OR			
4.	Write explanatory notes on			
	i. Catch-sidings ii. Classification of railway stations	14M	CO2	L2
	UNIT-III			
5.	Explain the factors effecting airport site selection.	14M	CO3	L1
	OR			
6.	The length of the runway under the Standard condition is 1620m. The airport			
0.	site has an Elevation of 270m. and the reference temperature of the airport			
	is 32.90°C, It is decoded to construct the runway with an effective Gradient			
	of 0.020%. Determine the corrected length of the Runway?	14M	CO3	L1
	UNIT-IV			
7.	Give the classification of Harbors. Justify the answer with neat sketches	14M	CO4	L2
	OR			
8.	Discuss the factors to be considered in the design and construction of Dock			
	walls?	14M	CO4	L1
	UNIT-V			
9.	Describe the features of Mechanical dredgers and Hydraulic dredgers used			
	in dredging operation.	14M	CO5	L2
	OR			
10.	Write an explanatory note on maintenance of Lock gates and Caissons.	14M	CO5	L2
	END			

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