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Question Paper Co					le 11473						17 DEC 2022			
B.E. / B.Tech DEGREE EXAMINATIONS, NOV/DEC 2022 Seventh Semester														
C	F 97/	02 - RAILWA	VS AIDDO	Civil Er	•	0	11	LADI			177	JCD	NTE	EDINC
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Duration: 3 Hours Max. Marks: 10													ks: 100	
				- A (10 >				ks)						
Answer ALL Questions Marks,														
1.	Classify the types of gradient in railways.										K-Level, CO 2,K1,CO2			
2.	Define super elevation in railways.												2,K1,CO2	
3.	Classify the methods used for stabilization of tracks in poor soil.												2,K2,CO3	
4.	Compare stop signal and warner signal.											2,K2,CO3		
5.	What is a hangar and mention its types?											2,K1,CO4		
6.	Classify airport codes based on aircraft wheel load.													2,K2,CO4
7.	List the elements to be considered in the Geometric design of runways.													2,K1,CO5
8.	Illustrate the cross wind component.												2,K2,CO5	
9.	Me	Mention some of the features of a harbour.											2,K1,CO6	
10.	List any two erosion protection methods in Coastal Zone.												2,K1,CO6	
PART - B (5 × 13 = 65 Marks) Answer ALL Questions														
11.	a) Explain with neat sketches any four obligatory points controlling the railway alignment.								e 13,K2,CO2					
				OF										
	b)	Illustrate the	types of leve	l crossing	gs wit	h neat	sk	etche	es.					13,K2,CO2
12.	a)	railways.									1 13,K2,CO3			
OR														
	b)	Explain the v	various types	of railwa	iy yard	d in de	etai	1.	-					13,K2,CO3
13.	 a) Outline a typical airport layout. Show the locations of its component and explain them in detail. OR 										ent	3 <i>13,K2,CO4</i>		
				UN										
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 11473 1														

- b) What is a master plan? Explain the recommendation by ICAO & FAA 13,K1,CO4 master plan in detail.
- 14. a) What are the items to be considered in the geometric design of runway 13,K1,C05 and explain it in detail?

OR

b) Develop Type II windrose diagram in detail with neat sketch. 13,K3,CO5

a) i)Illustrate the factors to be considered while selecting a suitable site 6,K2,CO6 for the construction of a port.
ii) Compare Pier and Wharf. Explain their utility with the help of 7,K2,CO6 sketches.

OR

b) Classify different types of break water. Explain any one in brief. 13,K2,CO6

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Explain the various rail fixtures and fastenings in permanent way with 15,K2,C01 neat sketch.

OR

b) Illustrate the various theories of creep in railways with suitable 15,K2,CO1 diagram.

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 11473 2