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	Code	No: 127JF R15	
	Couc	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD	
		B. Tech IV Year I Semester Examinations, November/December - 2018	
		TRANSPORTATION ENGINEERING - II	٨
	$\Delta \Delta \Delta = 0$:3 Hours (Civil Engineering) Max, Marks: 75	\wedge
	Time	This question paper contains two parts A and B.	/
	Note:	This question paper contains two parts A and B.	
		Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each	
		question carries 10 marks and may have a, b, c as sub questions.	
		question carries to marks and may have a, o, o as sao questions.	
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	/ / \ \	A A prompt I	/
,	1.a)	What is Gauge? What are the different gauges used in India? [2]	
(b)	What are the functions of Ballast in a railway track? [3]	
	c)	What is Interlocking? [2] What is cant deficiency? What are the permitted values of cant deficiency for different	
	d)	gauges? [3]	
	^ _ e)		\wedge
	/	What is Wind rose diagram? Give classification of Airports as per ICAO. [2] [3]	<i>/</i>
	g)	Differentiate between Dry Docks and Wet docks. [2]	
	h)	What are the requirements of a Port? [3]	
	i)	What are the types of detectors used in ITS? [2]	
	j)	Give a brief description of ATMS. [3]	
		$\triangle \bigcirc \qquad \triangle \bigcirc \bigcirc \qquad \triangle \bigcirc \bigcirc \bigcirc \bigcirc$	Λ
	$A \setminus J$	AG AG (50 Marks)	<i></i>
	2	D.C. C. C. C. C. What are the theories against divide among of mile. [10]	
	2.	Define Creep of Rails. What are the theories associated with creep of rails. [10] OR	
, .	3.	What are the functions of rails in a railway track? What are the requirements of good rails?	
			Λ
	<i>∕</i> \ - 4 .	If an 8° curve diverges from a main curve of 4° in opposite direction in a BG track	/
	F toward 1	compute the super elevation and the permissible speed on branch line, if the maximum	•
		speed permitted on main line is 55 kmph. Cant deficiency permitted is 7.6 cm. [10] OR	
	5.	What are the different types of yards connected with railways? Evplain	
	√ 6 .	What are the considerations in planning an Airport Terminal Area? Give typical layouts	Λ
	<u> </u>	What are the considerations in planning an Airport Terminal Area? Give typical layouts of Terminal Areas based on different aircraft parking systems.	/_
	/ \\	the state of the s	/
	7.	The length of runway at sea level under standard conditions at zero gradient is 1300 m. The airport is planned at an elevation of 800 m above sea level. Monthly mean of	
		maximum daily temperature and mean of average daily temperature are 44.5°C and	
		23.6°C respectively. The effective gradient of proposed runway is 0.5%. Compute the	
	•	actual runway length after corrections. [10]	
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What is a Harbour? How are the harbours classified? What are the requirements of a 8. good harbor? OR Define breakwaters. Explain the structure of Mound type breakwaters with the help of a neat diagram. 10. Explain how Automatic Vehicle Location and Automatic Vehicle Identification can be [10] implemented with ITS. OR Discuss in detail the architecture of ITS, its components and standards related. [10] 11.