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					Reg	g. No. [
				Ques	tion I	Paper	c Cod	e:80	021	9		
		B.E./	B.Tec	h. DEGRE	E EXAM	IINATIO	ON, NO	EMBE	R/DEC	CEME	ER 201	16.
						Sixth Se	emester					
					C	Civil Eng	gineering					
		CE	6604	— RAILW	AYS. AII	RPORTS	S AND H	ARBOU	JR EN	IGINI	EERING	3
		-					ons 2013					
	m.	m	,		(1	regulation	Olis 2013	,	M	owim.	···· 100) marks
	Time	e : Thr	ee no	urs					IVI	ахиис	III . 100	Jillatks
					Ans	wer ALI	L questic	ns.				
	PART A — $(10 \times 2 = 20 \text{ marks})$											
	1.	Wha	t are	the function	ons of bal	llast in a	a railway	track?				
	2.	Wha	t do y	ou mean b	y crossir	ng?						
	3.	Wha	t are	the metho	ds to imp	prove the	e poor su	bgrade	soil?			
	4.	Wha	t is a	marshalli	ng yard?							
2	5.	Writ	e a sh	nort note o	n hangar	r						
	6.	List	the d	ifferent ty	pes of air	rcraft pa	rking sy	stems.				
	7.	Wha	t is th	ne significa	ance of w	ind rose	diagran	a?				
	8.	State the importance of airport zoning.										
	9.	Wha	t are	the requir	rements	of a good	l port?					
	10. Differentiate between a Pier and a Quay.											
		* *			PART I	B — (5 ×	16 = 80	marks)				
	11.	(a)	(i)	Elucidat transpor		dvantage	es of ra	ilways	over	the c	ther m	nodes of (8)
			(ii)	Draw a r			e permar	nent wa	y and	expla	in the fi	unctions (8)
						(Or					
		(b)	(i)	Derive a	n expres				p betw	veen s	super el	levation, (8)
			(ii)		the fun permane			iiremen	ts of	vario	us elen	nents of (8)

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12.	(a)	Exp	lain the operations involved in plate laying by the telescopic me	thod.				
			Or					
	(b)	Exp	lain the methods of maintenance of tracks.	(16)				
13.	(a)	(i)	Discuss the merits and demerits of air transport.	(8)				
*		(ii)	Explain the planning concept of airport buildings.	(8)				
			Or					
	(b)	Exp	Explain the factors to be considered for the selection of site for an airpor					
				(16)				
7.4		(7)						
14.	(a)	(i)	Explain the different runway geometrics as recommended by I(CAO. (8)				
		(ii)	The length of runway under standard conditions is 600 m. airport site has an elevation of 100 m and reference temperate 28° C. If the runway is to be constructed with an effective grad of 0.5%, determine the corrected runway length.	ire is				
			Or					
	(b)	(i)	What are the basic patterns of runway configurations? Discuss pattern.	each (8)				
		(ii)	Explain the elements of airport lighting with neat sketches.	(8)				
15.	(a)	(i)	Explain the classification of harbours.	(8)				
		(ii)	Explain the different components of a port with a neat sketch.	(8)				
			Or					
	(b)	(i)	Explain the different types of breakwaters with neat sketches.	(8)				
		(ii)	Explain the salient features of Coastal Regulation Zone Notifica 2011.	10000				
				(0)				