	N NA						
				P6	P6.	P6	
	Code No: 117JF			(AGNA 010	D13		
	JAWAHA	RLAL NEHRU T h IV Year I Seme	TECHNOLOG	CAT TRACE	<u>R13</u>		
	B. Tec	h IV Year I Seme	ster Examinati	One November 7	ITY HYDERAE	BAD	
) DA	TRANSPO	ORTATION E	ons, November/1 NGINEERING -	December - 2017		
	Time: 3 Hours		(Civil Engine	ering		DA.	-
		On nones as 4		-	Max. Marl	70. 75	
		on paper contains	two parts A and	В.	man mar	us: /5	1
	consists of	ompulsory which a 5 Units. Answer	carries 25 marks	S. Answer all que	stions in Part A.	Part B	
	carries 10 n	5 Units. Answer narks and may hav	rea b cascub	uestion from eac	h unit. Each qu	estion	
			- u, o, c as sub (juestions.			
			PART- A				
. 1	.a) What is creer						
	b) Determine t	of rail? What is the	standard length	of rail?	(2:	Marks)	:
	Adopt sleep	he number of sle er density as n+9.	epers required	for constructing	a BG track 1043	[4] Pm long	
	c) Define Grad	ent and Grade Co	ma manad.			[3]	
	d) what are the	elements to be co	neidared for a			[2]	
	e) Define the te	rms Airport capac	ity and Taxiway	geometric design	of a railway trac	k?[3]	······
-	·) whichile ild	the various runger	IV dooms is	recommended by	1040		
	Define the ter Write in detail	ms Dry docks and	Aprons.		TCAO.	[3]	:
i) Define ITS ar	l about Features o	f Harbour.			[2] [3]	
· j	Write in detai	l about the ITS us	er comical O		e	[2]	
- January	*******	l about the ITS use	er services-Com	mercial Vehicle of	perations.	[3]	
	DA.		Ma			***************************************	
			PART-B			DA,	-
2.a)	What is Comp	ocito Classia			(50.1	Marka	
2.a) What is Composite Sleeper Index? What are the minimum values suggested for CSI for for good performance of timber sleepers. (50 Marks)							
	for good perfor	mance of timber	loono	in the important	points to be cons	sidered	\
b)	Explain the ne	cessity of sleeper	rs in railway to	nok What			
	good steepers?			ck. What are the	e desirable quali	ties of	
39)	VV:+L		OR			5 + 5]	
3.a)	discuss their for	f a typical diagrar	n, explain the c	omponents of a p	ermanent way an	d also	
b)	What is hallast?	nctions in the raily What are its func	vay track.	· ·	and way an	u aiso	
•	ounast.	What are its func	tions?		[5	5+5]	
4.	Write short note	s on:	(Fig. 1)	•		,	
	a) Gradients ad	opted in Indian Ra	ailways.				
\prec () \cdots	U) Cant and neg	ative super elevat	on /	MA			F
The same of the sa	c) Cant Deficien	cy and Degree of	curve.		一 () _[1]		
5.a)	Describe the type		OR		[1]	0] 🕓	
b)	What is Cant De	s of crossings wit	h the help of ne	at sketches.			
	gauges in India.	ficiency? Give the	ie permissible	values of cant de	ficiency for diffe	erent	
· · · · · · · · · · · · · · · · · · ·					[5+	-5]	
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