210		210	210	210	210	210	
Regi	stration l	No:					
Total	Number	of Pages : 0	2	040	0.10	E	3.Tech
210		210 -	210	210	210	PCE	E4401
				ack Examinatio ANSMISSION A		JTION	
				ANCH : EEE ne : 3 Hours			
			Ма	x Marks : 70			
210	Answe	er Question		CODE : E529 compulsory a	nd any≅FIVE fr	om the rest.	
		The figu	res in the righ	nt hand margin	indicate mark	(S.	
Q1	Answ	er the followi	ng questions :	:		(2	x 10)
	a) What	is proximity ef	fect?			,	,
				f transmission line	e?		
210		in Ferranti effe	ect ? tages of Hollow	210 conductors?	210	210	
		in Insulation o	-	conductors:			
	•		line feeders ar	e designed?			
	•			s provided in Und	erground cable?	•	
	-	is the maximu ation?	m value of Eart	h resistance of sv	witchyard in elec	trical	
	i) Evolo	in step and to	uch potential?				
210		Z 1 U	210	its expression?	210	210	
Q2				capacitance of a	three phase tra	nsmission	(5)
	-	explain briefly? is self GMD a) for evaluating ir	nductance of tra	nsmission	(5)
	•	explain briefly		o for ovaluating in	radotarioo or tra	Hermodieri	(0)
Q3 ²¹⁰	a) Derive		arameter of sh	ort transmission	line along with	its phasor ¹⁰	(5)
	b) A 3pl	nase 50 Hz t		e has conductor			(5)
				e placed at the		•	
				20km long and dance and assum			
				cy and voltage re			
210	a) Two:	210 neulator disce	of identical can	acitance value C	210	210	(5)
Q4				line insulation sy			(5)
	capac	itance is also	C then what is t	the string efficiend	cy?		
			rstand by String	g efficiency? Des	scribe briefly the	e methods	(5)
	וופבת	to improve it.					
	uscu						
Q5	a) Expla		-	nomic size of a co			(5)
Q5 210	a) Expla	tions?	210	nomic size of a co ²¹⁰ ed for a single ph	210	210	(5) (5)

210	210	210	210	210	210	210	210
	Q6 a) b)	Explain the design p Explain capacitance	(5 ₎				
210	Q7 210	Derive the equation a long transmission	nstant of (10	210			
	Q8 a) b) c) d)	Write short answer Advantages of Comp Compensation of tra Types of Insulators Earth resistance	(5 x	2)			
210	210	210	210	210	210	210	210
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