Tota	l Nu	mber of Pages :	02				
210		²¹⁰ 8 th Se	BRANCH : Tim	r / Back Exan STEM PROTE EEE, ELECT le : 3 Hours (Marks : 70			CEE44
			Q.C	ODE : C290			
		Answer Question	n No.1 which is ures in the righ		-	arke	st.
210				t nanu _{2 ki} naryi		ains. 210	
Q1.		Answer the follow	wing questions :				(2 x 1
	a)		•	•			
	b) c)	What is arc resistant If a certain relay h			will be the velu	e of DSM for	
	0)	a fault current of 1					
210	d)	What is an incipie	nt fault? What is it	s adverse effe	ct? 210	210	
	e)	What do you unde	•	•	•	-	
	f)	What is the differe voltage type relays	s?	-	principle type a	and balanced	
	g)	What is the role of				• • • •	
	h)	A particular fault h = 0.7 p.u. What ty				8 p.u., and I_0	
210	i)	What do you unde	-	•	210	210	
	j)	What do you unde	erstand by RRRV?	Give an expre	ession.		
Q2.	a)	How to detect an to illustrate it.	inter-turn fault in	case of gener	ator? Draw circ	cuit diagrams	(5)
	b)	A three phase tra 20/1 on the H.V. s	side in each phase	e. What will be	the rating of the	•	(5)
210		L.V. side so that it	won't respond to	any through fa	ult? 210	210	
Q3.	a)	Illustrate the work	ing of a numerical	relay with pror	oer block diagra	am.	(2 x 10) (5)
	b)	What do you un working.	•	• • •	•		
Q4. 210		What do you une protection? How y zones of protectio	would you implen				(5)
	b)	Find the expression relay	on for finding out	the region of t	rip operation fo	or offset mho	(5)
Q5.	a)	How would you in schemes?	mplement the sta	tic relays for c	lifferent distand	ce protection	(5)
210	b)	What is 210 earth implementation of		What ₂₁₀ are	the different	methods of	(5)

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Q6. a)	What protection schemes are implemente excitation in case of generators?	d for prime mover failure a	nd loss of (5)	
b)	What is auto reclosing? Explain briefly.		(5)	
Q7 ₂₁₀	Find the expression of fault current in a) neutral impedance and fault impedance p	stem with ₀ (10)	210	
Q8.	Write short answer on any TWO :		(5 x 2)	
a)	Inrush current protection in transformer			
b)	Vacuum Circuit breaker			
C)	Translay scheme of feeder protection			
210 d)	Induction type relays and its torque equat	ion 210	210	210

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