3/12/2024 ELECTRICAL SEM-VI C SCHEME PSPS QP CODE: 10069718

Total Marks: 80

NE	B: (1	Question No. 1 is compulsory	
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	(3		
	(4		
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1.	(a)	Explain the necessity of protective scheme in power system.	35
	(b)	Justify, why secondary of transformer should not be opened?	6 ⁷ 5
	(c)	Explain different methods of arc interruption.	5
	(d)	List the function of under frequency relay.	5
2.	(a)	Differentiate static and electromagnetic relay.	10
	(b)	Describe the differential protective scheme for star - delta connected	10
		transformer.	
3.	(a)	Sketch and explain single line diagram to show the measuring and protection scheme.	10
	(b)	Illustrate the protective schemes employed for the protection against overload and winding temperature of induction motor.	10
4.	(a)	Describe the bus zone protection in detail.	10
)	(b)	Explain the construction, working principle and operation of vacuum circuit	10
	45,54	breaker.	
5.	(a)	Explain the construction and working principle of SF ₆ circuit breaker with neat	10
	(h)	sketch.	1.6
	(b)	Explain the types of protective schemes employed for the protection of transmission line.	10
		transmission mic.	
5		Write a note on	20
.		(a) Isolators	20
		(b) Phase comparison scheme of carrier - current protection.	
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Time: 3 Hours