

EE - Sem VI - old - P4SE

09/06/15

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QP Code : 4271

(OLD COURSE)

(3 Hours)

[Total Marks : 100

- N.B.:- (1) Question No.1 is compulsory.
(2) Attempt any four questions out of remaining six questions.
(3) Assume suitable data if necessary and justify the same.

Q 1.	Answer the following questions.	20
	A) Write advantages of static relays over electromagnetic relay.	
	B) Explain how the arc is extinguished in D.C. circuit	
	C) Explain IDMT characteristic of Induction Relay.	
	D) Write properties of SF ₆ gas.	
Q 2 a)	Explain with neat diagram the construction and working of Air Circuit Breaker.	10
Q 2 b)	What is HRC fuse? Explain the working and cut off characteristics of HRC fuse.	10
Q 3 a)	Explain with neat diagram the construction and working of Minimum Oil Circuit Breaker.	10
Q 3 b)	Explain capacitive current breaking in Circuit Breaker.	10
Q 4 a)	Explain with neat diagram the construction and working of Vacuum Circuit Breaker.	10
Q 4 b)	Explain three step distance relaying scheme for protection of transmission line.	10
Q 5 a)	Explain the operating principle of MCB, MCCB, and ELCB.	10
Q 5 b)	Draw and explain Restricted Earth Fault Protection of Alternator.	10
Q 6 a)	Explain different protection schemes for Induction Motor.	10
Q 6 b)	Explain PSM and TSM in detail.	10
Q 7 a)	Explain different protections used for Transmission Line.	10
Q 7 b)	What is Primary and Back up protection? Explain with suitable example	10