QP Code: 14892

(3 Hours)

[Total Marks: 80]

breaking capacities of MCB, MCCB, ELCB. (d) Explain the protection provided for radial feeder.

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N.B. : (1)	Question No. 1 is compulsory.		1
(2)	Attempt any three questions from remaining five questions.		7
(3)	Figures to right indicate full marks.		
1. Attem	pt the following :		
(a)	Draw a typical protection circuit and explain the phenomena of	f fault clearing.	5
(b)	Mention at least five difference between a fuse and a CB.	5	5
(c)	Compare the ratings like voltage range, current range, number	r of poles and	5

2. (a) Explain the need and different techniques of providing negative phase sequence 10 protection for Alternators.

(b) Explain the differential protection provided for different types of bus zones. 10

(a) Explain the directional comparison and phase comparison method of carrier current 10 protection. Write its applications.

(b) Explain the working principle of directional overcurrent protection along with 10 their types and application.

4. (a) Why there is need for 3 types of distance relays? Explain each one along with their application.

(b) Explain the working principle of Air Circuit Breaker along with its ratings and application.

5. (a) What is restriced Earth few't protection. What is the need, how and where it is 10 provided.

(b) Explain the working minciple of Bucholz realy showing its location and justify why it cannot be used in dry type transformer.

6. Write short notes on :-

(a)	Instrument	Transformers required for protection	5
(b)	Contactors		5
(c)	Isciators	*	5
(d)	PRC fuse		5