

Q.1 Explain the working principle of induction type electromagnetic relays.

Q.2 Describe essential features of a protective system with reference to

1. Discrimination. 2. Stability. 3. Reliability.

Q.3 Why is back up protection required? Discuss different types of back-up Protections used.

Q.4 Discuss the zones of protection.

Q.5 Merits and demerits of the Static relays.

Q.6 Derive an expression for torque produced by an induction relay.

Q.7 What are the merits of induction cup construction over the induction disc construction?

Q.8 With the help of schematic diagram, discuss various components of numerical relays.

Q.9 Compare measuring CT and Protection CT

Q.10 Show the characteristics of following distance relays on R-X diagram.

(i) Reactance relay (ii) Mho relay (iii) Impedance relay

Q.11 Advantages of numerical relay.

Q.12 Define the terms ‘Plug Setting Multiplier’ and ‘Time Multiplier Setting’ used in context of an IDMT relay.

Q.13 Explain, what are the basic requirements of a protective system.

Q.14 Compare the time-current characteristics of IDMT, very-inverse and extremely inverse over current relays.

Q.15 Explain, what are the basic requirements of a protective system.