

classmate

6th Sem - Electrical
(switch gear and protective devices)

1

Q. Answer all the question (2x10 = 20)

- a. what is fuse?
- b. Define Relay?
- c. what is PSM?
- d. what is pick-up current?
- e. Definition of Re-striking voltage?
- f. what is lightning?
- g. Advantages of static relay.
- h. write the formula of percentage reactance?
- i. what is circuit breaker?
- j. what is short circuit?

2. Answer any six. (6x5 = 30)

- a. Describe Buchholz Relay with diagram?
- b. Explain Horn-gap lightning arrester.
- c. Discuss sulphur-hexa-fluoride circuit breaker.
- d. Difference between fuse and circuit breaker?
- e. Describe methods of Arc extinction?
- f. write PSM and TSM.
- g. Describe lightning arresters.

3. Answer any two. (10x2 = 20)

- a. Describe induction type directional over current relay with diagram?
- b. ^{What is} Explain oil circuit breaker and its classification and explain low oil circuit breaker.
- c. Types of fuses, Explain low and high voltage fuses?

1. Answer all the question. (2x10=20)

- a. Which device that detect the fault in power system and gives its destination.
- b. Define balance beam type Relay.
- c. Do fuse and Time characteristics diagram.
- d. Draw the basic circuit of Relay?
- e. Define lightning.
- f. What is lightning arrester.
- g. What is HRC fuse.
- h. What is symmetrical fault on 3-phase system.
- i. What is percentage reactance.
- j. Define short-circuit.

2. Answer any six (6x5=30)

- a. Write the limitation of fault current.
- b. Do single Bus-Bar Arrangement and explain.
- c. Steps for symmetrical fault calculation.
- d. Describe buchholz Relay.
- e. Discuss differential protection of alternator.
- f. Definition of following.
 - a) pick-up current.
 - b) PSM
 - c) TSM.
- g. Explain Horn-gap lightning arrester.

3. Answer any two (2x10=20)

- a. Explain low oil circuit breaker with neat diagram.
- b. Describe mechanism of lightning discharge and types of lightning stroke and its harm full effect.
- c. Write the principle of IDMT relay.

Answer all the questions (2x10=20)

1. a) Draw the diagram of plain oil break circuit breaker?
- b) Define lightning?
- c) Define Time setting multiplier?
- d) Draw the characteristics diagram of fuse & Time
- e) what is fuse?
- f) what is Restriking voltage?
- g) what is arc and its advantage in circuit breaker?
- h) what is Relay?
- i) what is breaking of a three phase circuit breaker?
- j) The current zero interruption, in oil and air blast circuit breakers is achieved by what.

2. Answer all the questions (6x5)

- a) Define and explain sf6 circuit breaker?
- b) Explain Induction type Relay and its operation.
- c) what is (a) pick-up current
(b) current setting
(c) Plug setting multiplier.
- d) Discuss Induction type direction power relay
- e) Describe classification of circuit breaker.
- f) Discuss protection of Bus-bar.

3. long answer type 10x2=20

- a) Explain protection of feeder by over current and earth fault relay.
- b) Describe the mechanism of lightning discharge and types of lightning stroke and its harmful effect.