

Switchgear Protections MCQ

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Q1. Bus coupler is very essential in arrangement ____.

- A. single bus
- B. double bus, double breaker
- **C. main and transfer bus**
- D. All of the above

Q2. Magnetic circuit breaker has _____ trip action.

- A. delayed
- **B. instantaneous**
- C. both of the above
- D. None of the above

Q3. In a circuit breaker the basic problem is to:

- A. maintain the arc
- B. emit the ionizing electrons
- **C. extinguish the arc**
- D. transmit large power

Q4. What is the use of Air blast circuit breaker?

- A. It is used for over currents.
- B. It is used for short duty.
- C. It is used for intermittant duty.
- **D. It is used for repeated duty.**

Q5. Which of the following medium is employed for extinction of arc in air circuit breaker ?

- A. Water
- B. Oil
- **C. Air**
- D. SF₆

Q6. A fuse is never inserted in ____.

- **A. neutral wire**
- B. phase dine
- C. positive of D.C. circuit
- D. negative of D.C. circuit

Q7. Fault diverters are basically ____.

- A. fuses
- B. relays
- **C. fast switches**
- D. circuit breakers

Q8. By which of the following methods major portion of the heat generated in a H.R.C. fuse is dissipated ?

- A. Radiation
- B. Convection
- **C. Conduction**
- D. All of the above

Q9. Ionization in circuit breaker is facilitated by ____.

- A. high temperature
- B. increase of mean free path
- C. increasing field strength
- **D. All of the above**

Q10. Arc in a circuit breaker is interrupted at:

- **A. zero current**
- B. maximum current
- C. minimum voltage
- D. maximum voltage

Q11. What is the use of the delay fuses?

- **A. protection of motors**
- B. power outlet circuits
- C. fluorescent lamps
- D. light circuits

Q12. Induction cup relay is operated due to changes in:

- A. current
- B. voltage
- C. impedance
- **D. All of the above**

Q13. Burden of a protective relay is the power ____.

- A. required to operate the circuit breaker
- **B. absorbed by the circuit of relay**
- C. developed by the relay circuit
- D. None of the above

Q14. A balanced 3-phase system consists of ____.

- A. zero sequence currents only
- B. zero, negative and positive sequence currents
- C. negative and zero sequence currents

- **D. positive sequence currents only**

Q15. Admittance relay is directional relay.

- **A. True**
- B. False

Q16. The voltage appearing across the contacts after opening of the circuit breaker is called_____ voltage.

- A. surge
- B. arc
- **C. recovery**
- D. operating

Q17. A fuse is connected in __ with circuit.

- **A. series**
- B. parallel
- C. either in series or in parallel
- D. None of the above

Q18. When a transmission line is energized, the wave that propagates on it is:

- A. current wave only
- B. voltage wave only
- **C. Both A and B**
- D. power factor wave only

Q19. Is A thermal protection switch can protect against overload?

- **A. Yes**
- B. No

Q20. Which material is used to made the arcing contacts in a circuit breaker ?

- **A. porcelain**

- B. electrolytic copper
- C. aluminium alloy
- **D. copper tungsten alloy**

Q21. What is the primary function of switchgear in a power system?

- A. To regulate voltage and frequency
- B. To switch power between different parts of the system
- **C. To protect equipment and personnel from electrical hazards**
- D. None of the above

Q22. What type of switchgear is used for high voltage transmission and distribution?

- A. Oil-insulated switchgear
- B. Air-insulated switchgear
- **C. Gas-insulated switchgear**
- D. Vacuum-insulated switchgear

Q23. Which of the following is NOT a type of circuit breaker used in switchgear?

- A. Oil circuit breaker
- B. Air circuit breaker
- C. Gas circuit breaker
- **D. Thermal circuit breaker**

Q24. What type of switch is commonly used for switching high voltage power in switchgear?

- A. Rotary switch
- B. Toggle switch
- C. Push button switch
- **D. Disconnect switch**

Q25. What is the main advantage of air-insulated switchgear?

- A. It is more reliable
- B. It takes up less space
- C. It is easier to maintain
- **D. It is less expensive than other types of switchgear**

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