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Switchgear & Protection MCQ Test

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Below is the **Switchgear & Protection MCQ** test that checks your basic knowledge of Switchgear & Protection. This **Switchgear & Protection MCQ Test** contains 20 Multiple Choice Questions. You have to select the right answer to the question. Finally, you can also take the Online Quiz from the Take **Switchgear & Protection Quiz** Button.

Q1. A transmission line is protected by....

- A. Inrush protection
- B. Distance protection
- C. Time graded and current graded over current protection
- **D. Both (B) and (C)**

Q2. What is the arc voltage in a circuit breaker?

- A. Lagging the arc current by 90°
- B. Leading the arc current by 90°
- **C. In phase with the arc current.**
- D. Lagging the arcing current by 180°

Q3. On which of the following effects of electric current a fuse operates?

- **A. Heating effect**
- B. Electrostatic effect
- C. Photoelectric effect
- D. Magnetic effect

Q4. SF6 is which type of gas?

- A. Electro negative

- B. Electro positive
- C. Both (a) & (b)
- D. None of these

Q5. The arcing contacts in a circuit breaker are made

- A. Copper tungsten alloy
- B. Porcelain
- C. Electrolytic copper
- D. Aluminum alloy

Q6. Outdoor switchgear is generally used for voltage

- A. 11 KV
- B. 33 KV
- C. 66 KV
- D. 132 KV

Q7. Arcing voltage will be the least in case of

- A. Copper
- B. Silver
- C. Tungsten
- D. Carbon

Q8. Which material is used for bus bars?

- A. Copper rods.
- B. Aluminium rods.
- C. Silver rods
- D. Any conducting material

Q9. Which part of the circuit breaker is helpful in breaking the current?

- A. Medium
- B. Handle
- C. Trip coil.
- D. Contacts.

Q10. The thermal circuit breaker has.....

- A. Instantaneous trip action
- **B. Delayed trip action**
- C. Instantaneous short action
- D. Any of the above

Q11. A thermal protection switch can protect against ____.

- A. Short-circuit
- B. Overvoltage
- **C. Overload**
- D. Temperature

Q12. Which of the following medium is employed for the extinction of arc in air circuit breaker?

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

Q13. The arcing contacts in a circuit breaker are made of Copper tungsten alloy.

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

Q14. On which of the following routine tests are conducted?

- A. Oil circuit breakers Air
- B. blast circuit breakers
- C. Minimum oil circuit breakers
- **D. All of the above**

Q15. What is the main function of a fuse?

- A. Protect the line

- B. Open the circuit
- **C. Prevent excessive currents**
- D. None of the above

Q16. With which of the following, a circuit breaker must be equipped for remote operation?

- A. Inverse time trip
- B. Time-delay trip
- **C. Shunt trip**
- D. All of the above

Q17. By Whom the contact space is ionised In a circuit breaker?

- A. Field emission from the contact surface
- B. Thermal emission from the contact surface
- **C. Thermal ionisation of gas**
- D. All of above

Q18. A transmission line is protected by ____.

- A. Inrush protection
- B. Distance protection
- C. Time graded and current graded over current protection
- **D. Both (B) and (C)**

Q19. The arc voltage produced in A.C. circuit breaker is always ____.

- **A. in phase with the arc current**
- B. lagging the arc current by 90°
- C. leading the arc current by 90°
- D. None of the above

Q20. A.C. network analyzer is used to solve problems of ____.

- **A. Load flow, short-circuit and stability**
- **B. Load flow**
- **C. Load flow and stability**
- **D. Load flow and short-circuit**

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