

Electrical Engineering – Multiple Choice Question Paper

1. What is the SI unit of electrical resistance?

- a) Ohm
- b) Volt
- c) Ampere
- d) Watt

2. Which law states that current is directly proportional to voltage?

- a) Kirchhoff's Law
- b) Ohm's Law
- c) Faraday's Law
- d) Coulomb's Law

3. The unit of electrical power is:

- a) Joule
- b) Volt
- c) Watt
- d) Ampere

4. Which device is used to measure electric current?

- a) Voltmeter
- b) Ammeter
- c) Wattmeter
- d) Galvanometer

5. AC stands for:

- a) Active Current
- b) Average Current
- c) Alternating Current
- d) Applied Current

6. What is the frequency of AC supply in India?

- a) 60 Hz
- b) 100 Hz
- c) 50 Hz
- d) 25 Hz

7. Which material is a good conductor of electricity?

- a) Rubber
- b) Glass
- c) Copper
- d) Plastic

8. Transformer works on the principle of:

- a) Electrostatics
- b) Mutual Induction
- c) Self Induction
- d) Resistance

9. The device used to convert AC to DC is called:

- a) Inverter
- b) Rectifier
- c) Transformer
- d) Regulator

10. What is the unit of capacitance?

- a) Henry
- b) Farad
- c) Ohm
- d) Coulomb

11. Which law is used to analyze complex electrical circuits?

- a) Ohm's Law
- b) Kirchhoff's Laws
- c) Newton's Law
- d) Faraday's Law

12. What does MCB stand for?

- a) Main Circuit Breaker
- b) Miniature Circuit Breaker
- c) Maximum Current Breaker
- d) Manual Circuit Breaker

13. Which quantity is measured in Henry?

- a) Resistance
- b) Capacitance
- c) Inductance
- d) Power

14. The opposition to current flow in an AC circuit is called:

- a) Resistance
- b) Reactance
- c) Impedance
- d) Conductance

15. Which instrument measures electrical energy?

- a) Ammeter
- b) Voltmeter
- c) Energy Meter
- d) Wattmeter

16. DC generator converts:

- a) Electrical energy to mechanical energy
- b) Mechanical energy to electrical energy
- c) AC to DC
- d) DC to AC

17. Which winding is present in a transformer?

- a) Primary only
- b) Secondary only
- c) Both primary and secondary
- d) Field winding

18. What is the power factor of a purely resistive circuit?

- a) 0
- b) 0.5
- c) 1
- d) Greater than 1

19. Which device stores electrical energy?

- a) Inductor
- b) Capacitor
- c) Resistor
- d) Transformer

20. The unit of electric charge is:

- a) Ampere
- b) Coulomb
- c) Volt
- d) Ohm

Answer Key

- 1) a
- 2) b
- 3) c
- 4) b
- 5) c
- 6) c
- 7) c
- 8) b
- 9) b
- 10) b
- 11) b
- 12) b
- 13) c
- 14) c
- 15) c
- 16) b
- 17) c
- 18) c
- 19) b
- 20) b