

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