

Student: Rathan. B
Score: 28/41 (68.29%)

Code: 2682

1. Electrical conductivity of gold is
A) 56%
C) 94%
B) 67%
D) 100% (Incorrect)
2. What is stationary electric charges?
A) Static charges (Correct)
C) Chemical charges
B) Kinetic charges
D) Electrical charges
3. What is the unit of electric charge?
A) Volts
C) Ampere
B) Hertz
D) Coulomb (Correct)
4. Which material contains eight electrons in valency layer?
A) Insulators (Correct)
C) Semiconductors
B) Conductors
D) Intrinsic semiconductors
5. Which material is used as electrical insulator?
A) Gallium
C) Aluminium
B) Porcelain (Correct)
D) Germanium
6. Which electrical parameter opposes the flow of electrons?
A) Power
C) Current
B) Voltage
D) Resistance (Correct)
7. How the single strand wire is called?
A) Flexible wire
C) Hook up wire (Correct)
B) Twisted wire
D) Multi strand wire
8. What is the purpose of covering provided over the electrical conductor?
A) Increase current flow (Incorrect)
C) Decrease voltage rating
B) Reduce current flow
D) Protection against weather
9. Which cores are used in intermediate frequency transformers?
A) Steel (Incorrect)
C) Cobalt
B) Nickel
D) Ferrite
10. Which material conducts electricity?
A) Mica
C) Glass
B) Paper
D) Copper (Correct)
11. How many electrons are contained in coulomb of electric charge?
A) 6.25×10^8 electrons
C) 6.25×10^{16} electrons
B) 6.25×10^{12} electrons
D) 6.25×10^{18} electrons (Correct)
12. What is the percentage of conductivity of electric current in silver?
A) 0.56
C) 0.94
B) 0.67 (Incorrect)
D) 1
13. What is the percentage of conductivity of electric current in aluminium?
A) 0.22
C) 0.56
B) 0.47
D) 0.76 (Incorrect)
14. How the movement of electrons through a conductor in a particular direction is called?
A) Resistance (Incorrect)
C) Conductance
B) Inductance
D) Electric current
15. Which metal has very good conductivity to the electric current?
A) Gold
C) Silver (Correct)
B) Copper
D) Aluminium
16. Which electrical property opposes the flow of electrons?
A) Power
C) Current (Incorrect)
B) Voltage
D) Resistance
17. How the single strand wire is called?
A) Hook - up wire
C) Flexible wire
B) Twisted wire
D) Multistrand wire (Incorrect)
18. What is the percentage of conductivity of electric current in copper?
A) 0.56
C) 0.94
B) 0.67 (Incorrect)
D) 1
19. How many gauge numbers in SWG, changed to double the cross section area of the conductor?

- A) Two gauge sizes decreased
B) Four gauge sizes increased
C) Five gauge sizes increased
D) Three gauge sizes decreased (Correct)

20. What are the fundamental properties of insulation materials?

- A) Length and cross sectional area
B) Low resistance and thermal heat
C) Temperature and electrical hazards
D) Insulation resistance and dielectric strength (Correct)

21. What is the shape of standard wire gauge?

- A) Square metal disk
B) **Circular metal disk (Correct)**
C) Cylindrical glass disk
D) Rectangular plastic disk

22. Which electrical quantity is directly proportional to the current carrying capacity of the conductor?

- A) Wire resistance (Incorrect)
B) Passing current
C) Conductor s shape
D) Conductor s diameter

23. Which formula is used to find the conductance?

- A) Q / V
B) $I \times R$
C) V / I
D) I / V (Correct)

24. Which materials are used for semiconductor?

- A) Gallium and indium
B) Silver and aluminium
C) Arsenic and antimony
D) Silicon and germanium (Correct)

25. Which metal has very good conductivity of electric current?

- A) Gold
B) **Silver (Correct)**
C) Copper
D) Aluminium

26. How the insulation coating stays without damage, even on bending the wire?

- A) Due to wire resistance
B) Due to high current flow (Incorrect)
C) **Due to elastic property of insulation**
D) Due to the strength of the wire material

27. What is the name of the motion of charged particles in any medium?

- A) **Current (Correct)**
B) Voltage
C) Resistance
D) Frequency

28. What is the specified Vcc voltage of 4 bit digital switch with 4 independent lines?

- A) 1.5 V to 2.2 V
B) 2.3 V to 3.6 V

- C) 4.5 V to 5.5 V (Correct)**
D) 5.0 V to 7.5 V

29. What is the purpose of standard wire gauge (SWG)?

- A) Measure current
B) Measure voltage
C) **Measure diameter of wire (Correct)**
D) Measure insulation of wire

30. Which electrical parameter is measured by the megger?

- A) Current
B) Voltage
C) **Insulation resistance (Correct)**
D) Frequency

31. How the insulators are called?

- A) Thyristors
B) Molecules
C) **Dielectrics (Correct)**
D) Semiconductors

32. Which tool is used for the simplest method of skinning wires?

- A) **Electrician's knife**
B) Manual wire stripper (Incorrect)
C) Thermal wire stripper
D) Mechanical wire stripper

33. Which energy is converted into electrical energy in hydropower stations?

- A) Heat energy
B) Light energy
C) Chemical energy
D) Mechanical energy (Correct)

34. Which tool is used to measure the size of wire?

- A) Try square
B) Steel rule
C) Feeler gauge
D) Standard wire gauge (Correct)

35. Which parameter of the wire is directly proportional to the current carrying capacity?

- A) Wire resistance
B) Passing current
C) Conductor s shape
D) Conductor s diameter (Correct)

36. What is the effect on the current flow with increased diameter of conductor?

- A) Resistance increases
B) Opposes more current
C) More voltage dropped
D) Allows high current flow (Correct)

37. What is the relation of wire diameter with current carrying capacity of conductor?

- A) Wire gets less heat
B) **Directly proportional (Correct)**
C) Inversely proportional
D) Drops more voltage across it

38. How the stationary electric charges are called?

- A) Static charges (Correct)** B) Kinetic charges
C) Chemical charges D) Electrical charges

39. What is the name of instrument used to measure electrical quantities?

- A) Meter (Correct)** B) Tester
C) Tester D) Vernier caliper

40. Which terminal of the meter is connected for measuring

electrical quantity?

- A) Input terminal (Correct)** B) Output terminal
C) Output terminal D) Pointer mechanism

41. How the electrical quantity measured by the meter is marked in it?

- A) Using colour codes
(Incorrect) **B) Printing the values**
C) Printing the values D) Directly printing the specifications