

ITI Quiz - 16-Jun-2026

11:33 AM

Q. ID: ITISKILL5119ML

June 2026

Answer Key

Duration: 60 Mins

Total Marks: 41

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

- A) 5.0 V to 7.5 V
- B) 2.3 V to 3.6 V
- C) 4.5 V to 5.5 V
- D) 1.5 V to 2.2 V

Answer: C) 4.5 V to 5.5 V

2. How many gauge numbers in SWG, changed to double the cross section area of the conductor?

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

Answer: C) Three gauge sizes decreased

3. Which cores are used in intermediate frequency transformers?

- A) Ferrite
- B) Steel
- C) Nickel
- D) Cobalt

Answer: A) Ferrite

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

- A) Aluminium
- B) Gold
- C) Silver
- D) Copper

Answer: C) Silver

5. What is stationary electric charges?

- A) Chemical charges
- B) Static charges
- C) Electrical charges
- D) Kinetic charges

Answer: B) Static charges

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

- A) Resistance
- B) Voltage
- C) Frequency
- D) Current

Answer: D) Current

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

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

Answer: C) Due to elastic property of insulation

8. What are the fundamental properties of insulation

materials?

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

Answer: C) Insulation resistance and dielectric strength

9. What is the purpose of covering provided over the electrical conductor?

- A) Decrease voltage rating
- B) Protection against weather
- C) Increase current flow
- D) Reduce current flow

Answer: B) Protection against weather

10. How the insulators are called?

- A) Dielectrics
- B) Semiconductors
- C) Thyristors
- D) Molecules

Answer: A) Dielectrics

11. What is the percentage of conductivity of electric current in silver?

- A) 0.94
- B) 0.56
- C) 1
- D) 0.67

Answer: C) 1

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

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

Answer: B) Mechanical energy

13. Which material conducts electricity?

- A) Glass
- B) Mica
- C) Copper
- D) Paper

Answer: C) Copper

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

- A) Tester
- B) Tester
- C) Vernier caliper
- D) Meter

Answer: D) Meter

15. Which electrical parameter is measured by the megger?

- A) Voltage
- B) Frequency

- C) Insulation resistance D) Current

Answer: C) Insulation resistance

16. Which material is used as electrical insulator?

- A) Gallium B) Germanium
C) Porcelain D) Aluminium

Answer: C) Porcelain

17. What is the percentage of conductivity of electric current in copper?

- A) 0.56 B) 0.67
C) 0.94 D) 1

Answer: C) 0.94

18. How the movement of electrons through a conductor in a particular direction is called?

- A) Electric current B) Inductance
C) Resistance D) Conductance

Answer: A) Electric current

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

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

Answer: D) Allows high current flow

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

- A) Printing the valves B) Printing the valves
C) Directly printing the specifications D) Using colour codes

Answer: A) Printing the valves

21. Which metal has very good conductivity to the electric current?

- A) Copper B) Gold
C) Silver D) Aluminium

Answer: C) Silver

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

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

Answer: B) Conductor s diameter

23. How the single strand wire is called?

- A) Flexible wire B) Twisted wire
C) Multi strand wire D) Hook up wire

Answer: D) Hook up wire

24. Which parameter of the wire is directly proportional to

the current carrying capacity?

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

Answer: A) Conductor s diameter

25. What is the percentage of conductivity of electric current in aluminium?

- A) 0.56 B) 0.22
C) 0.47 D) 0.76

Answer: A) 0.56

26. How the stationary electric charges are called?

- A) Electrical charges B) Kinetic charges
C) Static charges D) Chemical charges

Answer: C) Static charges

27. Which material contains eight electrons in valency layer?

- A) Intrinsic semiconductors B) Insulators
C) Conductors D) Semiconductors

Answer: B) Insulators

28. What is the shape of standard wire gauge?

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

Answer: B) Circular metal disk

29. Electrical conductivity of gold is

- A) 94% B) 100%
C) 67% D) 56%

Answer: C) 67%

30. Which terminal of the meter is connected for measuring electrical quantity?

- A) Pointer mechanism B) Output terminal
C) Output terminal D) Input terminal

Answer: D) Input terminal

31. Which electrical parameter opposes the flow of electrons?

- A) Current B) Power
C) Resistance D) Voltage

Answer: C) Resistance

32. Which electrical property opposes the flow of electrons?

- A) Resistance B) Voltage
C) Power D) Current

Answer: A) Resistance

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

- A) Wire gets less heat B) Directly proportional

- C) Drops more voltage across it D) Inversely proportional

Answer: B) Directly proportional

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

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

Answer: A) Standard wire gauge

35. How many electrons are contained in coulomb of electric charge?

- A) 6.25×10^{16} electrons B) 6.25×10^{12} electrons
C) 6.25×10^8 electrons D) 6.25×10^{18} electrons

Answer: D) 6.25×10^{18} electrons

36. What is the unit of electric charge?

- A) Volts B) Hertz
C) Ampere D) Coulomb

Answer: D) Coulomb

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

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

Answer: D) Measure diameter of wire

38. Which materials are used for semiconductor?

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

Answer: C) Silicon and germanium

39. Which formula is used to find the conductance?

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

Answer: D) I / V

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

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

Answer: D) Electrician's knife

41. How the single strand wire is called?

- A) Twisted wire B) Hook - up wire
C) Multistrand wire D) Flexible wire

Answer: B) Hook - up wire