

# ITI Quiz - 06-Oct-2026

## 12:47 PM

Q. ID: ITISKILL0500KH

September 2026

Answer Key

Duration: 30 Mins

Total Marks: 41

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

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

**Answer: B) 0.56**

2. Which electrical parameter is measured by the megger?

- A) Voltage
- B) Frequency
- C) Insulation resistance
- D) Current

**Answer: C) Insulation resistance**

3. What is stationary electric charges?

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

**Answer: B) Static charges**

4. What are the fundamental properties of insulation materials?

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

**Answer: A) Insulation resistance and dielectric strength**

5. Which material contains eight electrons in valency layer?

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

**Answer: B) Insulators**

6. Which materials are used for semiconductor?

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

**Answer: B) Silicon and germanium**

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

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

**Answer: B) Standard wire gauge**

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

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

**Answer: B) Measure diameter of wire**

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

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

**Answer: B) Silver**

10. Which electrical parameter opposes the flow of electrons?

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

**Answer: A) Resistance**

11. How the insulators are called?

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

**Answer: B) Dielectrics**

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

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

**Answer: C) 1**

13. How the single strand wire is called?

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

**Answer: B) Hook - up wire**

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

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

**Answer: B) Due to elastic property of insulation**

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

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

**Answer: D) Conductor s diameter**

16. Which material conducts electricity?

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

**Answer: A) Copper**

17. How the single strand wire is called?

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

**Answer: C) Hook up wire**

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

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

**Answer: A) Silver**

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

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

**Answer: B) Printing the values**

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

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

**Answer: B) Protection against weather**

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

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

**Answer: A) Electric current**

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

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

**Answer: B) Meter**

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

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

**Answer: C) Input terminal**

24. Which material is used as electrical insulator?

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

**Answer: C) Porcelain**

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

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

**Answer: C) Allows high current flow**

26. What is the unit of electric charge?

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

**Answer: D) Coulomb**

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

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

**Answer: C)  $6.25 \times 10^{18}$  electrons**

28. How the stationary electric charges are called?

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

**Answer: B) Static charges**

29. 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**

30. Which formula is used to find the conductance?

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

**Answer: A)  $I / V$**

31. What is the shape of standard wire gauge?

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

**Answer: D) Circular metal disk**

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

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

**Answer: B) Three gauge sizes decreased**

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

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

**Answer: A) Current**

34. What is the relation of wire diameter with current carrying

capacity of conductor?

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

**Answer: B) Directly proportional**

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

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

**Answer: D) Conductor s diameter**

**36.** Which cores are used in intermediate frequency transformers?

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

**Answer: B) Ferrite**

**37.** Electrical conductivity of gold is

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

**Answer: C) 67%**

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

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

**Answer: C) Electrician's knife**

**39.** 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**

**40.** Which electrical property opposes the flow of electrons?

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

**Answer: B) Resistance**

**41.** Which energy is converted into electrical energy in hydropower stations?

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

**Answer: C) Mechanical energy**