

ITI Quiz - 16-Jun-2026

11:33 AM

Q. ID: ITISKILL5119ML

June 2026

Question Paper

Duration: 60 Mins

Total Marks: 41

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Student Name: _____ Roll No: _____

1. How the insulators are called?

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

2. Which formula is used to find the conductance?

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

3. 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 the strength of the wire material
- D) Due to wire resistance

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

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

5. Which electrical property opposes the flow of electrons?

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

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

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

7. Which material contains eight electrons in valency layer?

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

8. Which electrical parameter is measured by the megger?

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

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

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

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

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

11. Electrical conductivity of gold is

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

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

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

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

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

14. How the stationary electric charges are called?

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

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

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

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

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

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

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

18. Which cores are used in intermediate frequency transformers?

- A) Ferrite
- B) Nickel

C) Cobalt

D) Steel

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

A) Silver

B) Gold

C) Aluminium

D) Copper

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

A) Three gauge sizes decreased

B) Two gauge sizes decreased

C) Four gauge sizes increased

D) Five gauge sizes increased

21. What is stationary electric charges?

A) Static charges

B) Electrical charges

C) Chemical charges

D) Kinetic charges

22. How the single strand wire is called?

A) Hook - up wire

B) Flexible wire

C) Multistrand wire

D) Twisted wire

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

A) Conductor s shape

B) Conductor s diameter

C) Wire resistance

D) Passing current

24. What are the fundamental properties of insulation materials?

A) Length and cross sectional area

B) Temperature and electrical hazards

C) Low resistance and thermal heat

D) Insulation resistance and dielectric strength

25. What is the shape of standard wire gauge?

A) Square metal disk

B) Cylindrical glass disk

C) Circular metal disk

D) Rectangular plastic disk

26. Which materials are used for semiconductor?

A) Arsenic and antimony

B) Silver and aluminium

C) Silicon and germanium

D) Gallium and indium

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

A) Input terminal

B) Pointer mechanism

C) Output terminal

D) Output terminal

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

A) Mechanical energy

B) Heat energy

C) Chemical energy

D) Light energy

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

A) Passing current

B) Wire resistance

C) Conductor s diameter

D) Conductor s shape

30. Which material is used as electrical insulator?

A) Porcelain

B) Gallium

C) Germanium

D) Aluminium

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

A) 0.56

B) 0.67

C) 1

D) 0.94

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

A) 2.3 V to 3.6 V

B) 5.0 V to 7.5 V

C) 1.5 V to 2.2 V

D) 4.5 V to 5.5 V

33. What is the unit of electric charge?

A) Coulomb

B) Hertz

C) Volts

D) Ampere

34. How the single strand wire is called?

A) Flexible wire

B) Twisted wire

C) Multi strand wire

D) Hook up wire

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

A) Reduce current flow

B) Protection against weather

C) Decrease voltage rating

D) Increase current flow

36. Which material conducts electricity?

A) Mica

B) Glass

C) Paper

D) Copper

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

A) Wire gets less heat

B) Directly proportional

C) Inversely proportional

D) Drops more voltage across it

38. Which electrical parameter opposes the flow of electrons?

A) Resistance

B) Power

C) Current

D) Voltage

39. 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

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

- A) Directly printing the specifications
- B) Printing the valves

C) Printing the valves

D) Using colour codes

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

- A) Resistance
- C) Current

- B) Frequency
- D) Voltage