

ITI Quiz - 16-Jun-2026 11:33 AM

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Student Name	Vaibhav	Access Code	1356
Attempt No.	#1	Completion Time	11:58 AM
Rank	#7	Total Questions	41

12 SCORE

41 MAX MARKS

12 CORRECT

29 INCORRECT

Answer Review

Q1 **INCORRECT** Electrical conductivity of gold is

A. 56%

B. 67% ☐

C. 94%

D. 100% ☐

Q2 **INCORRECT** What is stationary electric charges?

A. Static charges ☐

B. Kinetic charges

C. Chemical charges

D. Electrical charges ☐

Q3 **INCORRECT** What is the unit of electric charge?

A. Volts ☐

B. Hertz

C. Ampere

D. Coulomb ☐

Q4 **INCORRECT** Which material contains eight electrons in valency layer?

A. Insulators ☐

B. Conductors ☐

C. Semiconductors

D. Intrinsic semiconductors

Q5 **INCORRECT** Which material is used as electrical insulator?

A. Gallium

B. Porcelain ☐

C. Aluminium ☐

D. Germanium

Q6 **INCORRECT** Which electrical parameter opposes the flow of electrons?

A. Power

B. Voltage ☐

C. Current

D. Resistance ☐

Q7 **INCORRECT** How the single strand wire is called?

A. Flexible wire

B. Twisted wire

C. Hook up wire ☐

D. Multi strand wire ☐

Q8 **CORRECT** What is the purpose of covering provided over the electrical conductor?

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

Q9 **INCORRECT** Which cores are used in intermediate frequency transformers?

- A. Steel ☐
- B. Nickel
- C. Cobalt
- D. Ferrite ☒

Q10 **CORRECT** Which material conducts electricity?

- A. Mica
- B. Paper
- C. Glass
- D. Copper ☒

Q11 **INCORRECT** How many electrons are contained in coulomb of electric charge?

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

Q12 **CORRECT** What is the percentage of conductivity of electric current in silver?

A. 0.56

B. 0.67

C. 0.94

D. 1 ☒

Q13 **INCORRECT** What is the percentage of conductivity of electric current in aluminium?

A. 0.22

B. 0.47

C. 0.56 ☒

D. 0.76 ☐

Q14 **CORRECT** How the movement of electrons through a conductor in a particular direction is called?

A. Resistance

B. Inductance

C. Conductance

D. Electric current ☒

Q15 **INCORRECT** Which metal has very good conductivity to the electric current?

A. Gold

B. Copper ☐

C. Silver ☒

D. Aluminium

Q16 **CORRECT** Which electrical property opposes the flow of electrons?

A. Power

B. Voltage

C. Current

D. Resistance ☒

Q17 **CORRECT** How the single strand wire is called?

A. Hook - up wire ☒

B. Twisted wire

C. Flexible wire

D. Multistrand wire

Q18 **CORRECT** What is the percentage of conductivity of electric current in copper?

A. 0.56

B. 0.67

C. 0.94 ☒

D. 1

Q19 **INCORRECT** 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 ☒

Q20 **CORRECT** 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 ☒

Q21 **CORRECT** What is the shape of standard wire gauge?

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

Q22 **INCORRECT** Which electrical quantity is directly proportional to the current carrying capacity of the conductor?

- A. Wire resistance
- B. Passing current ☐
- C. Conductor s shape
- D. Conductor s diameter ☒

Q23 **CORRECT** Which formula is used to find the conductance?

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

Q24 **CORRECT** Which materials are used for semiconductor?

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

Q25 **INCORRECT** Which metal has very good conductivity of electric current?

- A. Gold
- B. Silver ☒
- C. Copper ☐
- D. Aluminium

Q26 **INCORRECT** How the insulation coating stays without damage, even on bending the wire?

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

Q27 **INCORRECT** What is the name of the motion of charged particles in any medium?

- A. Current ☒
- B. Voltage
- C. Resistance ☐
- D. Frequency

Q28 **INCORRECT** 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 ☒

D. 5.0 V to 7.5 V ☐

Q29 **INCORRECT** What is the purpose of standard wire gauge (SWG)?

A. Measure current ☐

B. Measure voltage ☐

C. Measure diameter of wire ☒

D. Measure insulation of wire ☐

Q30 **CORRECT** Which electrical parameter is measured by the megger?

A. Current ☐

B. Voltage ☐

C. Insulation resistance ☒

D. Frequency ☐

Q31 **INCORRECT** How the insulators are called?

A. Thyristors ☐

B. Molecules ☐

C. Dielectrics ☒

D. Semiconductors ☐

Q32 **INCORRECT** Which tool is used for the simplest method of skinning wires?

- A.** Electrician's knife ☐
- B.** Manual wire stripper
- C.** Thermal wire stripper
- D.** Mechanical wire stripper ☐

Q33 **INCORRECT** Which energy is converted into electrical energy in hydropower stations?

- A.** Heat energy ☐
- B.** Light energy
- C.** Chemical energy
- D.** Mechanical energy ☐

Q34 **INCORRECT** Which tool is used to measure the size of wire?

- A.** Try square ☐
- B.** Steel rule
- C.** Feeler gauge
- D.** Standard wire gauge ☐

Q35 **INCORRECT** 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 ☐

Q36 **INCORRECT** 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 ☒

Q37 **INCORRECT** 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 ☐

Q38 **INCORRECT** How the stationary electric charges are called?

- A. Static charges ☒
- B. Kinetic charges
- C. Chemical charges
- D. Electrical charges ☐

Q39 **INCORRECT** What is the name of instrument used to measure electrical quantities?

- A. Meter ☒
- B. Tester
- C. Tester ☐
- D. Vernier caliper

Q40 **INCORRECT** Which terminal of the meter is connected for measuring electrical quantity?

A. Input terminal ☐

B. Output terminal

C. Output terminal

D. Pointer mechanism ☐

Q41 **INCORRECT** 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 ☐