

MONTHLY TEST OF SEPTEMBER -26

Q. ID: ITISKILL7157JQ

September 2026

VARMA ITI KGL

Answer Key

Duration: 30 Mins

Total Marks: 25

Q.ID: ITISKILL7157JQ

1. What is the unit of electric charge?

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

Answer: C) Coulomb

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

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

Answer: D) Electrician's knife

3. 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) Five gauge sizes increased
- D) Four gauge sizes increased

Answer: A) Three gauge sizes decreased

4. Which material conducts electricity?

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

Answer: C) Copper

5. Which material contains eight electrons in valency layer?

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

Answer: C) Insulators

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

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

Answer: B) 1

7. Which electrical property opposes the flow of electrons?

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

Answer: B) Resistance

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

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

Answer: B) Current

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

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

Answer: A) Measure diameter of wire

10. Which electrical parameter opposes the flow of electrons?

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

Answer: C) Resistance

11. Which material is used as electrical insulator?

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

Answer: A) Porcelain

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

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

Answer: D) 6.25×10^{18} electrons

13. Which formula is used to find the conductance?

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

Answer: B) I / V

14. Electrical conductivity of gold is

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

Answer: C) 67%

15. How the single strand wire is called?

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

Answer: A) Hook up wire

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

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

Answer: D) Protection against weather

17. What is the shape of standard wire gauge?

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

Answer: C) Circular metal disk

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

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

Answer: B) Silver

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

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

Answer: B) Standard wire gauge

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

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

Answer: B) 0.94

21. Which electrical parameter is measured by the megger?

A) Voltage

B) Insulation resistance

C) Current

D) Frequency

Answer: B) Insulation resistance

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

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

Answer: C) Silver

23. Which materials are used for semiconductor?

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

Answer: A) Silicon and germanium

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

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

Answer: B) 0.56

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

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

Answer: D) Electric current