

Duration: 60 Mins**Total Marks: 25****Q.ID: ITISKILL9577JD**

1. What is the supply voltage if a current of 2 ampere flows through 10 Ohm resistor in a circuit?

- A) 20 Volt B) 65 Volt
C) 55 Volt D) 45 Volt

Answer: A) 20 Volt

2. What is the total resistance if two resistors R1 and R2 are connected in series?

- A) $(R1 \times R2)$ Ohms B) $(R1 + R2)$ Ohms
C) $(R1 / R2)$ Ohms D) $(R1 - R2)$ Ohms

Answer: B) $(R1 + R2)$ Ohms

3. What is the unit of electric current?

- A) Farad B) Ampere
C) Ohm D) Volt

Answer: B) Ampere

4. Which property limits the flow of electrons in an electrical circuit?

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

Answer: B) Voltage

5. Which winding has low resistance in resistance start induction run motor?

- A) Starting winding B) Auxiliary winding
C) Common winding D) Running winding

Answer: D) Running winding

6. How electrons flow in a battery circuit?

- A) Phase to earth B) Positive to negative polarity
C) Negative polarity to positive polarity D) Phase to neutral

Answer: C) Negative polarity to positive polarity

7. Which power supply has the fixed polarity?

- A) Alternating current B) Signal ripples
C) Direct current D) Signal voltage

Answer: C) Direct current

8. Which tool is used for skinning the insulation of cables and cleaning the wire surface?

- A) Hacksaw B) Firmer chisel

- C) Electrician's knife D) Combination pliers

Answer: C) Electrician's knife

9. Which material is used for making disc in energy meter?

- A) Brass B) Copper
C) Aluminium D) Zinc

Answer: C) Aluminium

10. Which material is used to avoid oxidation between aluminium conductor and the terminal?

- A) Grease B) Shellac
C) Kerosene D) Petrol

Answer: A) Grease

11. What is the rotor speed with respect to stator field speed in an induction motor?

- A) More than the fly wheel B) Less than the stator speed
C) Equal to the stator speed D) More than the stator speed

Answer: B) Less than the stator speed

12. What is the effect of pouring water on electrodes resistance in earth pit?

- A) Decreases B) Equalises
C) Increases D) Remains same

Answer: A) Decreases

13. What is the unit of electrical energy?

- A) Ampere B) Kilo watt hour
C) Watt D) Volt

Answer: C) Watt

14. Which is the common terminal while Ohm meter reads $AB = 10$ Ohm, $AC = 15$ Ohm and $BC = 25$ Ohm if the motor terminals are A, B and C?

- A) Earth Terminal B) Terminal A
C) Terminal B D) Terminal C

Answer: B) Terminal A

15. What is the maximum capacity of 3 phase squirrel cage induction motor used with direct on line (DOL) starter?

- A) 5 HP B) 15 HP
C) 20 HP D) 10 HP

Answer: A) 5 HP

16. Which type of conductor is used for bus bars?

- A) Thermal conductor
- B) Standard conductor
- C) Solid conductor
- D) Stranded conductor

Answer: D) Stranded conductor

17. What is the load resistance in an electrical circuit, if current, $I = 2$ amp and supply, $V = 10$ volt?

- A) 5 Ohms
- B) 2 Ohms
- C) 3 Ohms
- D) 4 Ohms

Answer: A) 5 Ohms

18. Which winding has more inductance in refrigerator compressor motor?

- A) Common
- B) Start and common
- C) Start
- D) Run

Answer: D) Run

19. Which type of 1- ϕ motor has high starting torque?

- A) Permanent capacitor
- B) Resistance start induction run
- C) Induction start and induction run
- D) Capacitor start and capacitor run

Answer: D) Capacitor start and capacitor run

20. Which law relates to voltage, current and resistance in an electrical circuit?

- A) Faraday s law
- B) Lenz s law
- C) Ohm s law
- D) Newton s law

Answer: C) Ohm s law

21. Which type of rotor is used in split phase induction motor?

- A) Squirrel cage
- B) Permanent magnet
- C) Eccentric
- D) Wound coil

Answer: A) Squirrel cage

22. What is the condition of compressor motor if Ohm meter reads infinity across common and start terminals?

- A) Starting winding shorted
- B) Running winding shorted
- C) Running winding open
- D) Starting winding open

Answer: D) Starting winding open

23. What is the unit of capacitance?

- A) Coulomb
- B) Farad
- C) Ampere
- D) Volt

Answer: B) Farad

24. Which meter indicates the true power directly in an electrical circuit?

- A) Ammeter
- B) Watt meter
- C) Volt meter
- D) Ohm meter

Answer: B) Watt meter

25. Which joint is made in either single or multi - strand conductors?

- A) Scarfed joint
- B) Western union joint
- C) Rat tail joint
- D) Britannia joint

Answer: C) Rat tail joint