

Duration: 40 Mins

Total Marks: 40

Q.ID: ITISKILL9212H9

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

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

**Answer: B) Squirrel cage**

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

- A) Hacksaw                         B) Combination pliers  
C) Firmer chisel                  D) Electrician's knife

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

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

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

**Answer: A) Aluminium**

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

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

**Answer: A) Less than the stator speed**

5. Which component is used as a switching device in electronic circuit?

- A) SCR                                B) Capacitor  
C) Diode                              D) Zener diode

**Answer: A) SCR**

6. What is the name of electronic circuit?

- A) Bridge rectifier                B) Full wave rectifier  
C) Half wave rectifier            D) Quarter wave rectifier

**Answer: A) Bridge rectifier**

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

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

**Answer: C) Stranded conductor**

8. Which power supply has the fixed polarity?

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

**Answer: C) Direct current**

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

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

**Answer: B) Voltage**

10. What is the process involved for converting AC to DC power supply?

- A) Regulation                     B) Rectification  
C) Inversion                        D) Convection

**Answer: B) Rectification**

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

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

**Answer: A) Decreases**

12. What is the unit of electric current?

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

**Answer: B) Ampere**

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

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

**Answer: B) Starting winding open**

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

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

**Answer: C) Capacitor start and capacitor run**

15. What is the reverse break down voltage range of zener diode?

- A) 1 to 3 volt                        B) 0.1 to 0.5 volt  
C) 0.5 to 1 volt                    D) 3 to 18 volt

**Answer: D) 3 to 18 volt**

16. How electrons flow in a battery circuit?

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

**Answer: C) Negative polarity to positive polarity**

**17.** What is the unit of capacitance?

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

**Answer: D) Farad**

**18.** What are the passive components used in electronic circuits?

- A) Transformers and semiconductors  
C) Transistors, diodes and SCRs
- B) Semi conductors and transistors  
D) Resistors, capacitors and inductors

**Answer: D) Resistors, capacitors and inductors**

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

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

**Answer: B) Watt meter**

**20.** Which material is used for making zener diode?

- A) Silicon  
C) Platinum
- B) Titanium  
D) Lead

**Answer: A) Silicon**

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

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

**Answer: B) 20 Volt**

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

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

**Answer: B) Running winding**

**23.** Which type of diode is used for communication circuits?

- A) Rectifier diode  
C) Switching diode
- B) Signal diode  
D) Zener diode

**Answer: B) Signal diode**

**24.** How the maximum reverse voltage across the diode is termed in reverse biased condition?

- A) Diode voltage  
C) Peak inverse voltage
- B) Peak rectification voltage  
D) Ripple frequency

**Answer: C) Peak inverse voltage**

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

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

**Answer: B) Ohm s law**

**26.** What is the unit of inductance?

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

**Answer: C) Henry**

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

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

**Answer: C)  $(R1 + R2)$  Ohms**

**28.** Which semiconductor material is used to make diodes?

- A) Steel  
C) Aluminium
- B) Copper  
D) Silicon

**Answer: D) Silicon**

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

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

**Answer: D) Rat tail joint**

**30.** Which electronic component is the voltage regulator?

- A) Transistor  
C) Zener diode
- B) Triac  
D) Diac

**Answer: C) Zener diode**

**31.** How many terminals are there in a Silicon Controlled Rectifier (SCR)?

- A) Three  
C) One
- B) Two  
D) Four

**Answer: A) Three**

**32.** Which winding has more inductance in refrigerator compressor motor?

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

**Answer: C) Run**

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

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

**Answer: C) Grease**

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

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

**Answer: A) 5 HP**

35. What is the unit of electrical energy?

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

**Answer: B) Watt**

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

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

**Answer: C) 5 Ohms**

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

**Answer: A) Terminal A**

38. How many diodes are required for making a bridge rectifier circuit?

- A) Three
- B) One
- C) Four
- D) Two

**Answer: C) Four**

39. What is the name of active component used in electronic circuit?

- A) DIAC
- B) Transistor
- C) TRIAC
- D) SCR

**Answer: B) Transistor**

40. Which application uses the digital ICs?

- A) Tuned circuits
- B) Amplifier
- C) Voltage regulator
- D) Logic gates

**Answer: D) Logic gates**