

Student Name: _____	Roll No: _____
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1. Which tool is used for skinning the insulation of cables and cleaning the wire surface?

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

2. What is the name of electronic circuit?

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

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

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

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

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

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

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

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

7. What is the unit of inductance?

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

8. What is the unit of electrical energy?

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

9. Which electronic component is the voltage regulator?

- A) Triac B) Zener diode

C) Diac

D) Transistor

10. What is the unit of capacitance?

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

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

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

12. What are the passive components used in electronic circuits?

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

13. 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 C
C) Terminal A D) Terminal B

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

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

15. Which semiconductor material is used to make diodes?

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

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

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

17. Which application uses the digital ICs?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

28. Which power supply has the fixed polarity?

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

29. How electrons flow in a battery circuit?

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

30. Which material is used for making zener diode?

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

31. Which type of diode is used for communication circuits?

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

32. What is the unit of electric current?

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

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

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

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

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

35. 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

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

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

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

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

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

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

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

A) 2 Ohms

B) 3 Ohms

C) 4 Ohms

D) 5 Ohms

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

A) Inversion

B) Convection

C) Regulation

D) Rectification