

Duration: 30 Mins

Total Marks: 40

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

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

Answer: A) SCR

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: D) $(R1 + R2)$ Ohms

3. What is the unit of electric current?

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

Answer: C) Ampere

4. Which material is used for making zener diode?

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

Answer: B) Silicon

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

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

Answer: D) 5 HP

6. 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

Answer: A) Electrician's knife

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

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

Answer: B) Grease

8. Which electronic component is the voltage regulator?

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

Answer: A) Zener diode

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

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

Answer: A) Three

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

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

Answer: D) 3 to 18 volt

11. How the ability of a conductor is called if it induces the voltage in the same conductor?

- A) Capacitance
- B) Conductance
- C) Self inductance
- D) Resistance

Answer: C) Self inductance

12. 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

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

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

Answer: D) Aluminium

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

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

Answer: D) Running winding

15. Which material is used for making ICs?

- A) Silicon
- B) Mild steel
- C) Platinum
- D) Carbon

Answer: A) Silicon

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

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

Answer: A) Resistors, capacitors and inductors

17. Which application uses the digital ICs?

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

Answer: C) Logic gates

18. What are the active components used in electronic circuits?

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

Answer: C) Transistors, diodes and SCRs

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

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

Answer: C) Watt meter

20. 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 B B) Terminal C
C) Terminal A D) Earth Terminal

Answer: C) Terminal A

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

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

Answer: C) Four

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

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

Answer: C) Stranded conductor

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

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

Answer: C) Transistor

24. What is the unit of capacitance used with single phase induction motors in domestic RAC system?

- A) Microfarad B) Milli henry

- C) Kilo ohm D) Milli ampere

Answer: A) Microfarad

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

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

Answer: D) Voltage

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

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

Answer: C) 20 Volt

27. What is the unit of electrical energy?

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

Answer: A) Watt

28. What is the equivalent of one microfarad in farad?

- A) 10-12 farad B) 10-3 farad
C) 10-6 farad D) 10-9 farad

Answer: D) 10-9 farad

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

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

Answer: C) Ohm s law

30. What is the unit of inductance?

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

Answer: C) Henry

31. What is the name of electronic circuit?

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

Answer: B) Bridge rectifier

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

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

Answer: C) Decreases

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

- A) Western union joint B) Britannia joint

C) Scarfed joint

D) Rat tail joint

Answer: D) Rat tail joint

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

A) 2 Ohms

B) 4 Ohms

C) 3 Ohms

D) 5 Ohms

Answer: D) 5 Ohms

35. Which semiconductor material is used to make diodes?

A) Copper

B) Steel

C) Silicon

D) Aluminium

Answer: C) Silicon

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

A) Peak rectification voltage

B) Peak inverse voltage

C) Ripple frequency

D) Diode voltage

Answer: B) Peak inverse voltage

37. Which winding has more inductance in refrigerator

compressor motor?

A) Start and common

B) Start

C) Run

D) Common

Answer: C) Run

38. How electrons flow in a battery circuit?

A) Negative polarity to positive polarity

B) Positive to negative polarity

C) Phase to neutral

D) Phase to earth

Answer: A) Negative polarity to positive polarity

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

A) Zener diode

B) Rectifier diode

C) Signal diode

D) Switching diode

Answer: C) Signal diode

40. Which device maintains a constant DC output?

A) Load regulators

B) Voltage regulators

C) Rectifier circuits

D) Current limiters

Answer: B) Voltage regulators
