

Chapter-4

Worksheet-1

Section 1

- Q1. What is a circuit diagram?
- Q2. Why should we buy electric appliances with the ISI mark?
- Q3. Define a battery. Explain the arrangement of cells in a battery.
- Q4. When does the current flow throughout the circuit? Explain.
- Q5. Why are wires of different materials and different lengths and thicknesses used?
- Q6. What type of wire is used for making electric fuses?
- Q7. What is an electromagnet?
- Q8. Explain the working of an electric bell with diagram.
- Q9. When does an electric short circuit occur? What harm can it do?
- Q10. What do you mean by overloading of an electric circuit? State two measures to avoid overloading.

Section 2

- Q11. Which of the following does NOT contain a heating element?
- a) Electric Iron
 - b) Electric Heater
 - c) Electric Oven
 - d) Electric Bell

Q12. Identify the element that is used for making the filament in bulbs.

- a) Silver
- b) Copper
- c) Aluminum
- d) Tungsten

Q13. Where can the key or switch be placed in the circuit?

- a) Left Side of the battery
- b) Right side of the battery
- c) Can be placed anywhere in the circuit
- d) Near the positive terminal of the bulb.

Q14. The coil of wire contained in an electric heater is known as

- a) Component
- b) Element
- c) Circuit
- d) Spring

Q15. The amount of heat produced in a wire depends on

- a) material
- b) length
- c) thickness
- d) all of these

Q16. Choose the statement which is not correct in the case of an electric fuse.

- a) Fuses are inserted in electric circuits of all buildings.
- b) There is a maximum limit on the current which can safely flow through the electric circuits.
- c) There is a minimum limit on the current which can safely flow in the electric circuits.
- d) If a proper fuse is inserted in a circuit it will blow off if current exceeds the safe limit.

Q17. When the strength of the current flowing through a coil is increased, which of the following statements is true for it?

- a) Strength of the magnetic field decreases,
- b) Strength of the magnetic field increases,
- c) Amount of heat generated due to resistance decreases,
- d) Strength of the magnetic field remains constant,

Q18. The magnetic field around a current carrying coil

- a) Last for three hours
- b) Last as long as the current flows through it
- c) Last till its half-life period
- d) Is permanent

Q19. Which of the following is not a circuit element?

- a) Battery
- b) Voltmeter

- c) Potential Difference
- d) Resistor

Q20. A fuse wire is made up of which alloy?

- a) Nichrome
- b) Tin-lead
- c) Manganin
- d) Constantan

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