

## Chapter-3

### Worksheet-2

#### Section 1

- Q1. Draw a diagram showing the two terminals of a bulb.
- Q2. Why should an electrician use rubber gloves while repairing an electric switch at your home? Explain.
- Q3. Using the “conduction tester” on an object it was found that the bulb begins to glow. Is that object a conductor or an insulator? Explain.
- Q4. What is the purpose of using an electric switch? Name some electrical gadgets that have switches built into them.
- Q5. How many types of electric circuit are there? Define them.
- Q6. Give one activity to prove that air is an insulator.
- Q7. The handles of the tools like screwdrivers and pliers used by electricians for repair work usually have plastic or rubber covers on them. Can you explain why?
- Q8. Draw a neat diagram of a basic Circuit Explain each part of it.
- Q9. If you touch an electric wire carrying current you get a shock, but if on the same wire the birds sit they do not get any shock/current. Explain why?
- Q10. Write difference between a conductor and an insulator.

#### Section 2

- Q11. In which of the conditions does a bulb glow.
- a) Individual terminals of cell are connected to individual terminals of the bulb.

- b) Positive terminal of cell is connected to individual terminal of the bulb.
- c) Negative terminal of cell is connected to individual terminal of the bulb.
- d) Individual terminals of cell are connected to positive terminal of the bulb.

Q12. In which of the conditions the bulb will fail to glow?

- a) Loose connection
- b) Fused bulb
- c) Discharged cell
- d) All of the above

Q13. Heating of the electrical devices is due to \_\_\_\_\_

- a) Burning of devices
- b) Conversion of energy
- c) Motion of the wires
- d) Discharging of the battery

Q14. Which of the following items is an insulator?

- a) Copper wire
- b) Pencil lead
- c) Pencil
- d) Safety pin

Q15. What is the direction of flow of electron in a dry cell?

- a) Positive terminal to negative terminal of cell
- b) Negative terminal to positive terminal of cell
- c) Current does not flow in the cell

d) Depends upon the connection in the circuit

Q16. An electric circuit in which electrical contact at every point is present is called \_\_\_\_\_ circuit.

- a) Closed
- b) Open
- c) Broken
- d) Non conducting

Q17. The symbol shown below is used for \_\_\_\_\_



- a) Cell
- b) Bulb
- c) Switch
- d) Battery

Q18. Who invented electric cell?

- a) Alessandro Volta
- b) Graham bell
- c) Nikola tesla
- d) Thomas Alva Edison

Q19. What is the Negative terminal of a dry cell is called?

- a) Carbon Disc
- b) Zinc Metal Disc
- c) Carbon rod with metal cap

d) Pointy end

Q20. What is the function of casing in a torch?

- a) It conducts electricity
- b) It Glows
- c) It reflects light
- d) It holds everything together.