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.