

## 1. Fill in the blanks

- a) A combination of two or more cell is called .....
- b) The wire in a electric light bulb is called .....
- c) A fluorescent lamp is a glass tube containing ..... Vapour. (mercury)
- d) A short piece of wire that melts and breaks an electric circuit if current flow in above safe level
- e) A magnetized iron when current passes through it is called .....
- f) Longer line in the symbol for cell represents its .....terminal.
- g) The combination of two or more cells is called a.....
- h) When current is switched 'on' in a room heater, it .....
- i) The safety device based on the heating effect of electric current is called a .....

## 2. Mark 'T' if the statement is true and 'F' if it is false:

- a) To make a battery of two cells, the negative terminal of one cell is connected to the negative terminal of the other cell. (T/F)
- b) When the electric current through the fuse exceeds a certain limit, the fuse wire melts and breaks. (T/F)
- c) An electromagnet does not attract a piece of iron. (T/F)
- d) An electric bell has an electromagnet. (T/F)

## 3. Answer these questions

- Q1. What is an electric circuit?
- Q2. How is closed circuit different from an open circuit?
- Q3. What are the elements of circuit? Draw a neat diagram
- Q4. How is heating effect of current produced? Name three device in which it works?
- Q5. Describe construction of bulb? Why nitrogen or argon used in bulb?
- Q6. What is electric fuse? How does it work?
- Q7. State the working of electric bell?
- Q8. Name any two effects of electric current.
- Q9. When the current is switched on through a wire, a compass needle kept nearby gets deflected from its north-south position. Explain.
- Q10. Will the compass needle show deflection when the switch in the circuit is closed?
- Q11. Do you think an electromagnet can be used for separating plastic bags from a garbage heap? Explain.
- Q12. An electrician is carrying out some repairs in your house. He wants to replace a fuse by a piece of wire. Would you agree? Give reasons for your response.