Board – CBSE	Class – 7	Topic – Electric Current and its Effects

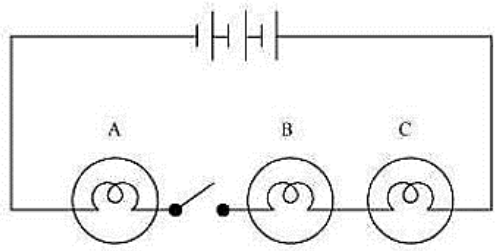
1. Do you think an electromagnet can be used for separating plastic bags from a garbage heap? Explain.
2. An electrician is carrying out some repairs in your house. He wants to replace a fuse with a piece of wire. Would you agree? Give reasons for your response
3. When the current is switched on through a wire, a nearby compass needle gets deflected from its north-south position. Explain.
4. Give reason:

   An electric bulb gives out light when connected to a circuit & switched on.
5. Draw a circuit diagram showing a bulb, a closed switch & a battery of four cells. Also, show the

   direction of current flowing through the circuit.
6. On what factor does the amount of heat produced by the current depend?
7. Arnav made an electric circuit & placed a magnetic compass near it.

   (a) On switching on, the needle of the magnetic compass showed a deflection. Why?

   (b) On switching off, the needle came back to its normal north-south direction. Why?
8. What is an electromagnet? State the various uses of an electromagnet.
9. Differentiate between electric current and electric circuit.
10. Write short notes on the heating effects of electric current.
11. Write short notes on magnetic effects of electric current
12. Why does an electric current show a magnetic effect?
13. What is an electric fuse? Explain the working of an electric fuse.
14. In the circuit shown in figure



(i) Would any of the bulbs glow when the switch is in the 'OFF' position?

(ii) What will be the order in which the bulbs A, B and C will glow when the switch is moved to the 'ON' position?

15. Identify the given symbols.

(i)

(ii)