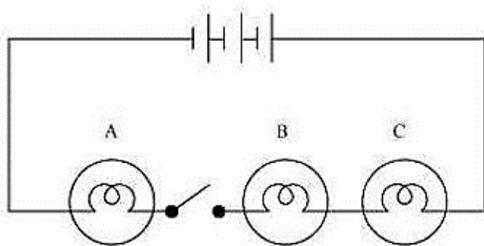


Board – CBSE

Class – 7

Topic – Electric current and its effect

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 by a piece of wire. Would you agree? Give reasons for your response
3. When the current is switched on through a wire, a compass needle kept nearby gets deflected from its north-south position. Explain.
4. Give reason:
An electric bulb gives out light when connected in 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 upon?
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 heating effects of electric current.
11. Write short notes on magnetic effects of electric current
12. Why does electric current show 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)

