



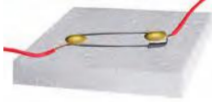

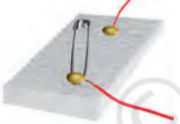

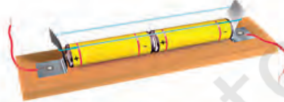





CHAHAL COACHING CENTRE –C3

Class 7th Chapter 10 (Electric current and its effects)

1. Symbols of Electric Current:

- Electric current is represented by the symbol 'I' in equations.
- Unit of electric current is Ampere (A).

S.No.	Electric component	Symbol
1.	Electric cell 	 2/14
2.	Electric bulb 	
3.	Switch in 'ON' position 	
4.	Switch in 'OFF' position 	
5.	Battery 	
6.	Wire 	

2. Battery:

- A battery is a device that provides a source of electric potential difference (voltage).
- It consists of two or more cells connected in series or parallel.

3. Heating Effect of Electric Current:

- When current passes through a conductor, it generates heat due to resistance.
- This effect is used in devices like electric heaters, toasters, and incandescent bulbs.

4. Fuse:

- A fuse is a safety device used to protect circuits from excessive current.
- It contains a thin wire that melts when current exceeds a certain value, breaking the circuit and preventing damage.

5. Magnetic Effect of Electric Current:

- When electric current flows through a conductor, it creates a magnetic field around it.
- The direction of the magnetic field can be determined using the right-hand rule.

6. Electromagnet:

- An electromagnet is a temporary magnet created by passing current through a coil of wire wound around a magnetic core.
- Used in various applications, such as doorbells, cranes, and MRI machines.

7. Electric Bell:

- An electric bell consists of an electromagnet, a hammer, and a bell.
- When the circuit is closed, the electromagnet attracts the hammer, which strikes the bell and produces sound.