

CHAPTER-4 | Magnetic Effect of Electric Current

QUIZ
PART-02

1. An electromagnet is made by:

- A. Heating metal
- B. Passing current through coil
- C. Painting iron
- D. Cooling wire (B)

Explanation: Current makes coil magnetic.

2. Iron nail inside coil:

- A. Weakens magnet
- B. Strengthens magnet
- C. Stops current
- D. Heats wire (B)

Explanation: Iron core increases strength.

3. When switch OFF, crane drops objects because:

- A. Current stops
- B. Heat reduces
- C. Battery dead
- D. Wire breaks (A)

Explanation: Magnetic field disappears.

4. Lifting electromagnets are used in:

- A. Hospitals
- B. Schools
- C. Scrap yards
- D. Homes (C)

Explanation: Used to lift heavy metal objects.

5. Earth behaves like a:

- A. Heater
- B. Giant magnet
- C. Battery
- D. Generator (B)

Explanation: Earth has magnetic field.

6. Compass north pole is attracted to:

- A. North pole
- B. South pole
- C. Wire
- D. Battery (B)

Explanation: Opposite poles attract.

7. Increasing turns of coil:

- A. Reduces strength
- B. Increases strength
- C. Stops current
- D. Heats battery (B)

Explanation: More turns strengthen magnet.

8. Electromagnet works only when:

- A. Current flows
- B. Switch off
- C. No battery
- D. Coil empty (A)

Explanation: Needs electric current.

9. Magnetic field around coil depends on:

- A. Colour
- B. Current
- C. Temperature
- D. Light (B)

Explanation: Stronger current, stronger field.

10. Generators work on principle of:

- A. Heating
- B. Electromagnetism
- C. Friction
- D. Pressure (B)

Explanation: Electricity and magnetism are linked.