CHAPTER-4 | Magnetic Effect of Electric Current

QUIZ PART-01

1. When current flows through a wire, it produces:
   A. Heat only
   B. Sound
   C. Magnetic field
   D. Light (C)

Explanation : A current-carrying wire creates a magnetic field.

2. The compass needle deflects when:
   A. Switch is OFF
   B. Current flows
   C. Battery is removed
   D. Wire breaks (B)

Explanation : Magnetic field causes needle deflection.

3. When current stops, magnetic effect:
   A. Increases B. Remains
   C. Disappears D. Doubles (C)

Explanation : No current means no magnetic field.

4. Hans Christian Oersted discovered:
   A. Battery
   B. Magnetic effect of current
   C. Heating effect
   D. Generator (B)

Explanation : He linked electricity and magnetism.

5. The region where magnetic effect is felt is called:
   A. Electric zone
   B. Magnetic field
   C. Energy zone
   D. Heat zone (B)

Explanation : Magnetic field surrounds the wire.

6. Electric bells work on:
   A. Heating effect
   B. Magnetic effect
   C. Chemical effect
   D. Light effect (B)

Explanation : They use electromagnets.

7. A coil carrying current behaves like a:
   A. Heater
   B. Battery
   C. Magnet
   D. Switch (C)

Explanation : It acts as an electromagnet.

8. Magnetic effect disappears when:
   A. Wire is long
   B. Switch OFF
   C. Battery new
   D. Coil tight (B)

Explanation : Current stops when switch is off.

9. Compass needle moves due to:
   A. Heat
   B. Electric shock
   C. Magnetic field
   D. Light (C)

Explanation : It responds to magnetic field.

10. Motors and fans use:
    A. Magnetic effect
    B. Heating effect
    C. Light effect
    D. Chemical effect (A)

Explanation : Motors work on electromagnetism.