

CHAPTER-7 | Heat Transfer in Nature

QUIZ
PART-02

1. Convection occurs in:

- A. Solids only
- B. Liquids and gases
- C. Vacuum
- D. Metals only (B)

Explanation: It needs movement of particles.

2. In convection, heat is transferred by:

- A. Vibration
- B. Radiation waves
- C. Movement of particles
- D. Light (C)

Explanation: Particles move carrying heat.

3. Smoke rises because:

- A. It is heavy
- B. It is cold
- C. Hot air is lighter
- D. It is magnetic (C)

Explanation: Heated air expands and rises.

4. Sea breeze occurs:

- A. At night
- B. During day
- C. In winter only
- D. In desert (B)

Explanation: Land heats faster in daytime.

5. Land breeze occurs:

- A. During day
- B. At night
- C. In afternoon
- D. In summer only (B)

Explanation: Land cools faster at night.

6. Soil heats faster than water because:

- A. Soil is lighter
- B. Soil absorbs more heat quickly
- C. Water is metal
- D. Soil reflects heat (B)

Explanation: Land temperature rises faster.

7. In heated water experiment, coloured streak shows:

- A. Radiation
- B. Conduction
- C. Convection current
- D. Reflection (C)

Explanation: It shows circular movement of water.

8. Convection cannot occur in:

- A. Water
- B. Air
- C. Oil
- D. Vacuum (D)

Explanation: It requires material medium.

9. Hot air rises because it becomes:

- A. Heavier
- B. Lighter
- C. Solid
- D. Magnetic (B)

Explanation: Heated air expands and density decreases.

10. Land breeze blows from:

- A. Sea to land
- B. Land to sea
- C. Mountain to sea
- D. City to village (B)

Explanation: Cooler air moves from land to sea.