

CHAPTER-7 | Heat Transfer in Nature

QUIZ
PART-03

1. Radiation does not require:

- A. Heat
- B. Light
- C. Medium
- D. Sun (C)

Explanation: Radiation can travel through vacuum.

2. Sun's heat reaches Earth by:

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

Explanation: Space has no medium.

3. All objects:

- A. Absorb heat only
- B. Reflect heat only
- C. Radiate heat
- D. Produce light (C)

Explanation: Every object emits heat radiation.

4. White clothes in summer are preferred because they:

- A. Absorb heat
- B. Reflect heat
- C. Conduct heat
- D. Produce heat (B)

Explanation: Light colours reflect more heat.

5. Dark clothes in winter are preferred because they:

- A. Reflect heat
- B. Absorb heat
- C. Conduct heat
- D. Cool body (B)

Explanation: Dark colours absorb more heat.

6. Radiation can occur in:

- A. Vacuum
- B. Only solids
- C. Only liquids
- D. Only gases (A)

Explanation: It needs no medium.

7. In radiation, heat is transferred:

- A. Particle to particle
- B. By moving particles
- C. Directly from source
- D. Through water only (C)

Explanation: Heat travels as energy waves.

8. Conduction and convection cannot occur in:

- A. Solids
- B. Liquids
- C. Vacuum
- D. Air (C)

Explanation: They need material medium.

9. Radiation transfer happens:

- A. Slowly
- B. Only at night
- C. Without contact
- D. Only in metals (C)

Explanation: No direct contact required.

10. Which can occur in vacuum?

- A. Conduction
- B. Convection
- C. Radiation
- D. All (C)

Explanation: Only radiation works without medium.