

CHAPTER-7 | Heat Transfer in Nature

QUIZ-07

1. Heat travels in solids mainly through which process?

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

Explanation : In solids, particles pass heat from one to the next without moving, which is conduction.

2. Which material is a poor conductor of heat?

- A. Aluminium
 - B. Copper
 - C. Wood
 - D. Iron
- (C)

Explanation : Wood does not allow heat to pass easily, so it is a poor conductor.

3. Why does the pin closest to the flame fall first in a heated metal strip activity?

- A. Pins are weak
 - B. Heat reaches all pins at the same time
 - C. Heat reaches that pin first
 - D. Strip bends
- (C)

Explanation : Heat travels from the heated end to the other end, so the closest pin receives heat first and the wax melts earlier.

4. Why does smoke move upward?

- A. Smoke is heavier than air
 - B. Smoke is pushed by wind
 - C. Hot air rises
 - D. Cold air rises
- (C)

Explanation : Hot air expands, becomes lighter, and rises, carrying smoke upward.

5. Heat transfer in liquids happens mainly due to:

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

Explanation : In liquids, heat moves through the actual movement of particles—convection.

6. During the day, cool air moves from the sea to the land because:

- A. Water heats faster
 - B. Land heats faster
 - C. Sea becomes hotter
 - D. Land remains cold
- (B)

Explanation : Land becomes hotter quickly, warm air rises, and cooler sea air moves to replace it—sea breeze.

7. What type of clothes keeps us cooler in summer?

- A. Dark
 - B. Light-coloured
 - C. Thick woollen
 - D. Plastic-coated
- (B)

Explanation : Light colours reflect heat, keeping the body cooler.

8. Heat from the sun reaches Earth by:

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

Explanation : Radiation does not need any medium, so heat travels through space by radiation.

9. Water that seeps through soil and rocks and gets stored below is called:

- A. Surface water
 - B. Rainwater
 - C. Groundwater
 - D. Vapour
- (C)

Explanation : Stored water beneath the ground in pore spaces is groundwater.

10. The continuous movement of water from Earth to atmosphere and back is called:

- A. Distillation
 - B. Respiration
 - C. Water cycle
 - D. Transpiration
- (C)

Explanation : Evaporation, condensation, precipitation, and seepage together form the water cycle.