

CHAPTER-7 | Particulate Nature of Matter

QUIZ
PART-06

1. Potassium permanganate spreads due to:

- A. Chemical reaction
- B. Particle movement
- C. Heating
- D. Freezing (B)

Explanation: Diffusion occurs.

2. Movement increases with:

- A. Cooling
- B. Heating
- C. Freezing
- D. Compression (B)

Explanation: Heat increases kinetic energy.

3. Diffusion is fastest in:

- A. Solid
- B. Liquid
- C. Gas
- D. Ice (C)

Explanation: Gas particles move fastest.

4. Fragrance spreads due to:

- A. Gravity
- B. Particle motion
- C. Magnetism
- D. Heat only (B)

Explanation: Air particles move constantly.

5. Increasing temperature increases:

- A. Attraction
- B. Particle motion
- C. Shape
- D. Volume only (B)

Explanation: Kinetic energy rises.

6. In solids, particle movement is:

- A. Fast
- B. Restricted vibration
- C. Free
- D. None (B)

Explanation: Only vibrate in fixed position.

7. In liquids, movement is:

- A. Fixed
- B. Limited
- C. Free
- D. None (B)

Explanation: Limited to certain space.

8. In gases, movement is:

- A. Restricted
- B. Moderate
- C. Maximum
- D. None (C)

Explanation: Gases move freely.

9. Soap cleans because:

- A. Reacts
- B. Forms micelles trapping dirt
- C. Dissolves cloth
- D. Melts (B)

Explanation: Soap traps dirt in micelles.

10. Increasing order of particle movement speed:

- A. Gas > Liquid > Solid
- B. Solid > Liquid > Gas
- C. Liquid > Gas > Solid
- D. Solid > Gas > Liquid (A)

Explanation: Movement fastest in gases.