

## CHAPTER-1 | Matter in Our Surroundings

QUIZ  
PART-06

1. 293 K =

- A. 10°C  
B. 20°C  
C. 30°C  
D. 40°C (B)

*Explanation:*  $293 - 273 = 20^\circ\text{C}$ .

2. 25°C =

- A. 273 K  
B. 288 K  
C. 298 K  
D. 300 K (C)

*Explanation:*  $25 + 273 = 298\text{ K}$ .

3. Naphthalene balls disappear because of:

- A. Melting  
B. Freezing  
C. Sublimation  
D. Condensation (C)

*Explanation:* Naphthalene changes directly from solid to vapour.

4. Perfume smell reaches far due to:

- A. Fusion  
B. Diffusion  
C. Freezing  
D. Sedimentation (B)

*Explanation:* Perfume particles mix with air particles.

5. Increasing force of attraction: oxygen, water, sugar. This order is:

- A. Correct  
B. Incorrect  
C. Only oxygen is wrong  
D. Only sugar is wrong (A)

*Explanation:* Gas < liquid < solid in force of attraction.

6. Water at 25°C is:

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

*Explanation:* At room temperature, water is liquid.

7. Water at 0°C can be:

- A. Only solid  
B. Only liquid  
C. Solid and liquid  
D. Liquid and gas (C)

*Explanation:* 0°C is the melting point of ice.

8. Water at 100°C can be:

- A. Only solid  
B. Only liquid  
C. Solid and liquid  
D. Liquid and gas (D)

*Explanation:* 100°C is the boiling point, so both states may exist.

9. Water is a liquid at room temperature because it has:

- A. Fixed shape only  
B. Fixed volume but no fixed shape  
C. No volume  
D. No flow (B)

*Explanation:* Liquids have fixed volume and take container shape.

10. Ice at 273 K cools better than water at 273 K because ice:

- A. Has no mass  
B. Gives out heat  
C. Takes latent heat while melting  
D. Has higher temperature (C)

*Explanation:* Ice absorbs extra heat to melt, so it cools more.