

**DELHI PUBLIC SCHOOL JAMMU**  
**SESSION - 2025-26**  
**MONTH – MAY**  
**ASSIGNMENT**  
**CLASS - IX**  
**SUBJECT - CHEMISTRY**  
**CHAPTER – 1: Matter in Our Surroundings**

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**1. Multiple Choice Question:**

(1 mark)

Which of the following has the highest kinetic energy?

- (a) Ice
- (b) Water
- (c) Steam
- (d) Snow

**2. Assertion and Reason Type Question:**

(1 mark)

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

**Assertion (A):** A gas can be compressed easily.

**Reason (R):** The particles in a gas are closely packed.

**3. Answer the following questions briefly:**

(2 marks)

Convert the following temperatures to the Kelvin scale:

- (i) 25°C
- (ii) 100°C

**4. Differentiate between the following with examples:**

(3 marks)

- a. Evaporation and Boiling
- b. Latent heat of vaporization and latent heat of fusion

**5. Give reasons for the following:**

(5 marks)

- a. A gas fills up the vessel completely.
- b. We are able to sip hot tea faster from a saucer than a cup.
- c. Ice at 0°C is more effective in cooling than water at 0°C.
- d. Wet clothes dry faster on a windy day.
- e. Steam causes more severe burns than boiling water.

OR

**Define the following terms with one example each:**

- a. Condensation
- b. Melting
- c. Freezing
- d. Boiling point
- e. Evaporation

**6. Read the following passage and answer the questions:**

(4 marks)

Ravi kept a beaker of water in sunlight and another in the shade. He observed that the water in the beaker placed in sunlight evaporated faster. He also noticed that a few camphor balls kept in an open container gradually disappeared without leaving any residue.

**Questions:**

- a. What is the process involved in the disappearance of camphor balls?
- b. Why did the water in sunlight evaporate faster?
- c. List any two factors affecting the rate of evaporation.

Or

State one application of sublimation in daily life.