



Change of States of Matter

A. Choose the Correct Answer:

1. What is the process of changing a solid into a liquid called?

- A) Freezing
- B) Condensation
- C) Melting
- D) Evaporation

2. When a liquid changes into a gas on heating, the process is called:

- A) Melting
- B) Freezing
- C) Evaporation
- D) Condensation

3. What happens during condensation?

- A) A gas turns into a liquid
- B) A liquid turns into a gas
- C) A solid turns into a liquid
- D) A gas turns into a solid

B. Fill in the Blanks:

1. The process by which a solid changes into a liquid is called _____.
2. When water vapor cools down and changes into liquid, it is called _____.
3. The change of liquid into gas on heating is known as _____.

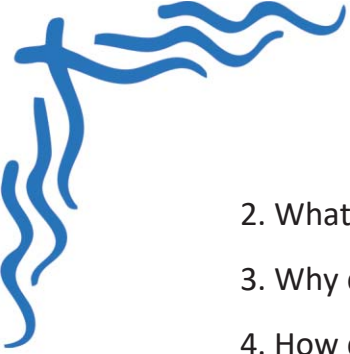
C. Case Study:

Ravi placed some ice cubes in a bowl.

- He noticed that after some time, the ice started melting into water.
- He then heated the water, and it turned into steam.
- Later, he held a cold metal plate above the steam and saw water droplets forming on the plate.
- His teacher explained that these are examples of changes in the states of matter.

Case Study Questions:

1. What process took place when the ice cubes turned into water?



2. What change of state occurred when the water turned into steam?
3. Why did water droplets form on the cold metal plate?
4. How do changes in temperature affect the state of matter?

D. Short Answer Questions:

1. What is melting?
2. What happens during evaporation?
3. What is the difference between condensation and freezing?

E. Long Answer Questions:

1. Explain the different changes of states of matter with examples.
2. How does heating and cooling affect the state of matter? Describe with diagrams.
3. Why do substances change their state on heating or cooling?