



Brain International School

Vikas Puri, New Delhi

ASSIGNMENT NO. 1

SUBJECT: CHEMISTRY

CLASS-IX

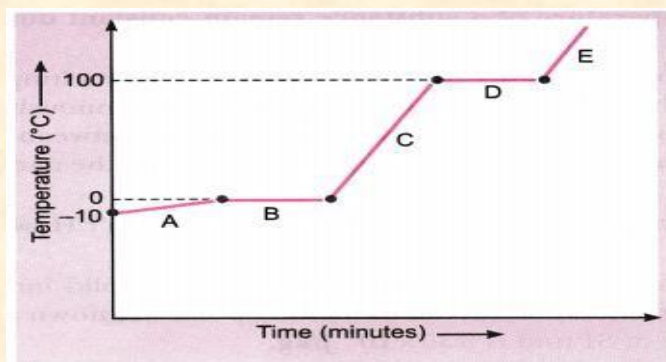
APRIL'2025

Ch- 1: Matter in Our Surroundings.

1. To which physical state of matter do the following statements apply?

- (i) Incompressible, no fixed shape
- (ii) Compressible, no definite volume.

2. Analyse the temperature versus time graph of water, given below :



Which region contains all liquids?

3. Alka was making tea in a kettle. Suddenly she felt intense heat from the puff of steam gushing out of the spout of the kettle. She wondered whether the temperature of the steam was higher than that of the water boiling in the kettle. Comment.
4. Explain interconversion of three states of matter with the help of flow chart. Name the process of each interconversion.
5. Give reasons for the following:
- (a) Why does ice float on water?
 - (b) Why does a gas fill completely in the vessel in which it is kept ?
6. Each of the following questions, two statements are given- one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:
- a) Both A and R are true, and R is correct explanation of the assertion.
 - b) Both A and R are true, but R is not the correct explanation of the assertion.
 - c) A is true, but R is false.
 - d) Both assertion and reason are false.
- (i) **Assertion:** We feel more cold after taking bath with hot water
Reason: Evaporation of hot water takes place faster which causes cooling
- (ii) **Assertion:** Dry ice is solid CO_2
Reason : Dry ice is same as ice.