

ASSERTION AND REASONING **BASED CHEMISTRY QUESTION**

In each of the following questions two statements are given below - one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below:

(a) Both A and R are true, and R is the correct explanation of the assertion.

(b) Both A and R true and R is not the correct explanation of the assertion.

(c) A is true but R is false.

(d) A is false but R is true.

1-Assertion: Matter is a substance that possesses mass and occupies space.

Reason: Particles of matter are very small in size.

2-Assertion: A solid is a substance which has fixed shape but not a fixed volume.

Reason: Gas is a substance which has fixed shape and volume.

3- Assertion: Evaporation is the process of changing of liquid into vapor its boiling point.

Reason: The rate of evaporation decreases with increase in temperature.

4- Assertion: Evaporation causes cooling.

Reason: During evaporation the molecules with high kinetic energy move out and therefore the average kinetic energy and hence the temperature decreases.

5- Assertion: Latent heat is called hidden heat.

Reason: The process of conversion of solid into its liquid state on heating, without rise in temperature is called fusion or melting.

ANSWER: 1. (b) 2. (d) 3. (c) 4. (a) 5. (b)

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