

Matter

Marks : 30

Time : 1 hr

1. Fill in the blanks

1×5=5

- a. Two or more atoms of the same or different elements constitute _____.
- b. The kinetic energy of a molecule is due to _____.
- c. The process in which solid substances changes into liquid on heating is called _____.
- d. The boiling point of water is _____.
- e. _____ is the reverse of process of sublimation.

2. Write True or False

$\frac{1}{2} \times 8 = 4$

- a. The particles of solid have minimum kinetic energy.
- b. The smallest unit of an element that always takes part in a chemical reaction is called Molecule.
- c. The average kinetic energy of the molecule is directly proportional to the temperature of the substances.
- d. The space between two molecules is called intramolecular space.
- e. Intermolecular force is directly proportional to the Intermolecular Space.
- f. The space between the molecules of gas is very less.
- g. The temperature at which a solid substance melt and changes into a liquid at atmospheric pressure called Melting Point.
- h. The process of changing gas to a liquid by cooling, is called Deposition.

3. Short answer type question

1×7=7

- a. What is freezing?
- b. Define Intermolecular force of attraction.
- c. Why the solid has a fixed shape?
- d. What is Boiling Point?
- e. Why liquid can flow easily?
- f. Why gas can compress easily?
- g. What is Vaporization?

4. Answer briefly

2×7=14

- a. Why a solid does not fill its container completely?
- b. "A solid cannot be compressed much. But we can compress easily sponge." Is the Sponge solid or not? Explain.
- c. Write six characteristics of liquid.
- d. Write five differences between solid, liquid and gas.
- e. Describe how liquid changes to gases on heating?
- f. Write five difference between Sublimation and Deposition.
- g. How freezing process happens?

1. a. Molecule
b. Heat Content of the substances.
c. Melting.
d. 100°C
e. Deposition

2. a. T
b. F (Atom)
c. T
d. F (Intermolecular Space)
e. F (Inversely)
f. F (Large)
g. T
h. F (Condensation)

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