

## **STD-VI    PHYSICS    Assignments (Solved Q.1-5) On Chapter Matter .**

Note: Learn and Write these questions and answers in the notebook in a neat and clean way with proper margins and date.

**Q1. Define the following terms: a) Matter    b) Atom    c)Molecules.**

Matter- Anything which occupies space and has mass, and could be perceived by our senses of smell, touch, sight, hearing and taste.

Atom - Matter is composed of tiny particles called “**Atoms**”. An atom is the smallest constituent unit of ordinary matter that constitutes a chemical element.

Molecules - The smallest unit of matter which can exist independently is called molecule .

**Q2. Mention the 03 states of matter along with examples.**

The 03 states of matter are :

Solid- has definite shape and volume. Examples:- wood, stone, book, ice, etc...

Liquid- has definite volume but no definite shape. Examples:- water, juice, milk, oil, etc..

Gas- has neither definite shape nor definite volume. Examples:- air, hydrogen, oxygen, water vapour, etc..

**Q3. What do you mean Intermolecular spacing and Inter Molecular Force of attraction.**

Inter Molecular Spacing- The space between any two consecutive molecules of a substance is called intermolecular Spacing .

Inter Molecular Force of attraction - The force of attraction between the molecules(like molecules or unlike molecules) is called Inter molecular Force of Attraction.

**Q4. State 03 properties of solid , liquid, gas.**

- **Properties of solids:** (i) Solids have definite shape and distinct boundaries.  
(ii) Solids have fixed volume.  
(iii) They have negligible compressibility.
- **Properties of liquids:** (i) Liquids do not have definite shape and distinct boundaries.  
(ii) Liquids have fixed volume.  
(iii) They can be compressed.
- **Properties of gas:** (i) Gases neither have definite shape nor have fixed volume.  
(ii) They can be compressed much.  
(iii) They can take any shape.

**Q5. State four characteristics of molecules of matter.**

04 characteristics of molecules of mater are:

1. They are very small in size. 2. They have spaces between them. 3.The are constant in random motion. 4.They always attract each other.