



**CLASS :8**

**Subject: physics**  
**Topic:- Answers**

**Date :- 04. 07 .2020**  
**Time:- 30 min**

**Answers ( worksheet -13)**

**Ans1) Fill in the blanks**

*Mass and weight*

*Solid , liquid and gas*

*Intermolecular force of attraction*

*Adhesive force of attraction*

*Liquid*

**Q2) Answers of the questions**

- a. *Five characteristics of solid are*
- i. *They are hard*
  - ii. *They are not easily compressed*
  - iii. *They cannot flow*
  - iv. *They have fixed shape , size and volume*
  - v. *They can be heaped*

*2) The molecules of solid are very closely packed as their inter molecular force of attraction is very large so solids are not easily compressed .*

3) *Liquid molecules can slide over one another so they can flow from higher level to lower level .*

4) *The inter molecular force of attraction between gas molecules is almost negligible so gas molecules are free to move in the entire volume available to them ,so gas do not have fixed volume .*

5) *The inter molecular force of attraction that takes place between like molecules is known as Cohesive force of attraction*

*The inter molecular force of attraction that takes place between unlike molecules is known as Adhesive force of attraction*

6) *The force of attraction that takes place between two molecules is known as inter molecular force of attraction .*

*The space between two molecules is known as inter molecular space .*

7) *The intermolecular force of attraction between gas molecules is very weak so the gas molecules are not hold tightly so they are easily compressed .*

### **Answer ( work sheet -14)**

Ans1) **True and False statement**

False , True , False , False , True

Ans2) **Answer to the Questions**

a. The molecules of solid are closely packed so they are hard.

b. The kinetic theory of matter states that

- i. Every matter is made up of smaller particles known as atom
- ii. Atoms of same substance are alike in all aspect
- iii. Molecules are hold together by a force known as inter molecular force of attraction .

iv. The space between two molecules is known as inter molecular space .

3)when solids are heated the inter molecular force of attraction decreases and the solid molecules start moving far away from one another and a time comes when solid changes to liquid .

4)Liquid molecules can slide on one another so they can flow .

5) when a gaseous substances are cooled the inter molecular force of attraction increases and the gas molecules comes close to one another and gradually changes into liquid .

### **Answer (worksheet-15 )**

#### **Ans1) True and False statement**

False , False , True , False , False

#### **Ans2) Answer the following question**

a. Mass per unit volume of a body is known as density .

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

b. Density is directly proportional to mass and inversely proportional to volume

c.  $1\text{g/cc} = 1000 \text{ kg / cubic meter}$

d. Density bottle

e. The density of a substance is directly proportional to the number of molecules present in per unit volume of a substance .

If D = density

n=number of molecules per unit volume

V = volume of the substance

M = mass of one molecule

$$D = \frac{nM}{V}$$

