Physics Worksheet

MULTIPLE CHOICE QUESTIONS (1 MARKS)

(a) The solids are

1. More dense
2. Less dense
3. Least dense
4. Highly compressible

(b) The intermolecular forces in liquids are

1. As strong as in solids
2. Stronger than in solids
3. Weaker than in solids
4. Weaker than in gases

(c) What is state of motion?

1. position of rest
2. position of motion
3. both by the state of rest or motion.
4. none of these

(e) The strength of force is expressed by?

1. weight
2. mass
3. magnitude
4. longitudinal force

(f) The force between two charged bodies is called

a. muscular force
a. gravitational force
b. magnetic force
c. electrostatic force

(g) When two forces act in opposite directions, then net force acting two forces

a. sum of two factors

b. difference between two factors

c. both of these

d. none of these

Fill in the blanks

(a) All the molecules of a substance are_____.

(b) The intermolecular spacing is_____in the solids,_____in liquids and_____in gases

(c) The molecular motion in liquid and gas is in zig- zag path

(d) In a solid, the molecules_____but they remain at their fixed positions.

(e) The intermolecular forces are the weakest in _____.

1. Name the three states of matter.

2. Define matter. What is its composition?

3. The molecules in a substance are in motion. What type of path do they follow?

SHORT ANSWER TYPE QUESTIONS (3 MARKS)

1. How do the solids, liquids and gases differ in their following properties?

(a) Size

(b) Shape

(c) Density

2. Describe a simple experiment to illustrate that molecules are not at rest, but they constantly move.

3. Distinguish between the three states of matter - solid, liquid and gas on the basis of their molecular models.

4. How does the density of a liquid or gas vary with temperature?

5. A given quantity of liquid is heated. Which of the following quantity will vary and how?

6. Two objects of same mass are moving with velocities v and 4v respectively. Find the ratio of their kinetic energies.

7. Define kinetic energy and potential energy.

8. Define pressure.Write it's SI unit.

9. Find the amount of work done if a force of 60 N moves an object through a distance of 5 m in the direction of force.

10.   Define moment of force.