Chapter- 20

Worksheet

Matter

Q1. Answer the following questions:

1. Why do solids have a definite and rigid structure?
2. Why change in state of matter occur?
3. Why electric cable wire become loose in summers?
4. Why gases can be compressed easily?
5. How does heating and cooling affect the movement of molecules.

Q2. Give one word for the following:

1. The change of solid to gas.
2. Property of matter in which molecules move from one place to another.
3. The property of matter to dissolve in liquid easily.
4. The property of matter in which they can compressed easily.

Answer Key:

Q1. Answer the following questions:

1. Solids have a definite and rigid structure because the molecules of solids are tightly packed with strong intermolecular force of attraction, which do not allow molecules to move from their position.
2. Change in state of matter occur due to change in temperature.
3. The electric cable appears to hang loosely from the poles during summer because of expansion. Due to heat the molecules start vibrating rapidly and they take up more space.
4. Gases can be compressed easily because in gases inter-molecular space is maximum. When gases are compressed, the molecules come close to each other and occupy small space. For example, natural gas is compressed and form compressed natural gas (CNG).
5. On cooling the movement of molecules is decrease and on heating the movement of molecules is increased.

Q2. Give one word for the following:

1. sublimation
2. Diffusion
3. Solubility
4. Compressibility