

1. What is the main purpose for the separation of mixture?

- (i) Remove undesirable and harmful substances
- (ii) Get useful substance.
- (iii) Get completely pure substances for preparing other useful substance.

2. Define Handpicking.

This method of separation can be used when the quantity of a mixture is small portion of the org the substance to be separated forms a small portion of the mixture.

3. Define winnowing

The process of separation of grain from husk and hay with the help of wind is called winnowing.

4. Define Magnetic separation

The process by which a magnetic substance can be separated from a mixture of magnetic and non-magnetic substance by the help of a magnet.

5. Define Sublimation

The process in which a solid changes directly into its vapours on heating is called Sublimation.

7. residue

8. distillate

9. decantation

10. Fractional distillation

1. (b) Distillation
2. (d) Fractional distillation
3. (a) Tap water
4. (a) Stationary phase
5. (a) Ink, honey, ice-cream, milk

Short Questions

1.
 - (a) Metalloids are the elements that show some properties of metals and some properties of non metal.
 - (b) Noble gases are the elements that do not react chemically with other elements or compounds.
2.
 - (a) Iron
 - (b) Calcium
3. Two characteristics are
 - Compounds have a fixed composition of their own.
 - A compound is represented by a definite chemical formula.

5. Crystallisation is a process in which slow evaporation of a solution containing more of the solid component is done.

Example - Pure sugar is obtained from its solution in water by the process of crystallisation.