

## SOLVED QUESTION

Fill in the blank spaces by choosing the correct words from the following list.

**List:** Distillation, same, iron, sedimentation, iodine, decantation, ammonium chloride, outward, alloy, filtration

1. Particles of ..... are separated by a magnet from a mixture of iron and sulphur.

**Ans.** Iron

2. Substances like ..... and ..... can be removed from a mixture by the

**Ans.** Ammonium chloride, iodine process of sublimation.

3. Pure water can be obtained from common salt solution by the process of .....

**Ans.** Distillation

4. .... and ..... are processes followed in removing insoluble impurities from river water for city water supply system.

**Ans.** Sedimentation, decantation

5. All pure substances contain the ..... particles or groups of particles.

**Ans.** Same

6. In a centrifuge, the heavier particles in a suspension are pushed .....

**Ans.** Outward

**Statements given below are incorrect. Write the correct statements.**

7. Husk is removed from grains by the process of handpicking.

**Ans.** Husk is removed from grains by the process of winnowing.

8. Pure water is obtained from sea water by the combined process of decantation and filtration.

**Ans.** Pure water is obtained from sea water by the process of distillation.

9. When muddy water is filtered, the mud collects as a precipitate.

**Ans.** When muddy water is filtered, the mud collects as a residue.

10. The constituents of a mixture are present in a fixed ratio.

**Ans.** The constituents of a mixture are present in any ratio.

11. Salt and sulphur can be separated by dissolving in alcohol.

**Give reasons for the following.**

12. Water cannot be used to separate salt and sugar.

**Ans.** We cannot use water to separate salt and sugar because both of these substances are soluble in water.

**13.** Pure substances are required for manufacturing chemicals and other manmade materials.

**Ans.** Pure substances are required for manufacturing chemicals and other manmade materials because impurities in these substances react with each other and form other substances.

**14.** Iodine and sand can be separated by sublimation.

**Ans.** A mixture of iodine and sand can be separated by sublimation because iodine sublimes on heating, and escapes as vapour, these vapour deposit on the walls of the funnel on cooling and sand is left behind.

**15.** Suspended impurities in water sink to the bottom on adding alum.

**Ans.** Alum is added in water to settle sand and clay particles. Alum dissolves in water and load or weigh down clay and dust particles making them heavier and increasing the rate of sedimentation.