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1. Differentiate between pure substances and mixtures.

Ans-

Pure Substances

- Pure substances are made of only one matter; thus the composition is the same throughout.
- Chemical and physical properties are constant.
- Categorized as gas, liquid and solid.
- Example - Water, Hydrogen gas, gold etc.

Mixtures

- Mixtures are made up of several substances that are not chemically bonded.

Chemical and physical properties may vary.

- Categorized as homogeneous and heterogeneous mixture.

Examples - Air, Sand and sugar, oil and water etc.

2. Give 3 examples each of Homogeneous and Heterogeneous mixtures.

Ans- 3 examples of Homogeneous mixture are - Air, Alloys such as Brass, Bronze, Sea water, Coffee.

3 examples of Heterogeneous mixture are - Oil in water, mud and water, Sand in water, Sand and salt.

3. Explain the principle of the process of Winnowing for separation of solid-solid mixture.

Ans Winnowing is based on the fact that if mixture is containing two components and one is lighter than another one, then both the components can be separated by blow of air. The mixture is allowed to fall from a height, lighter components gets collected in a separate heap from the heavier component due to wind.