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## EXERCISE-I

1- Select homogeneous and heterogeneous mixtures from the following:

Salt solution, petrol and water, sand and charcoal, alcohol and water, air dissolved in water, air, sea water, fruit juices, mist, brass.

- Ans -
- Homogeneous mixture - Salt solution, alcohol and water, air dissolved in water, sea water, brass.
  - Heterogeneous mixture - Petrol and water, sand and charcoal, air, fruit juices, mist.

2- Define the following with an example for each:

(a) Pure substance

Ans - Pure substance is either element or compound. They contain the same kind of atoms and molecules and have a definite set of physical and chemical properties.

Ex - Gold, Sugar

(b) Impure substance

Ans - A substance in which some other substances are present in smaller or larger amounts is called a impure substance.

Ex - Air

(c) Alloy

Ans - A homogeneous (solid) mixture of two or more metals or a metal and a non-metal is called an alloy.

EX - Bronze = Copper + Tin + Zinc

(d) Solution

Ans - The homogeneous mixture of water (or any other solvent) and a substance soluble in it (solute) is called a solution.

(e) Heterogeneous mixture

Ans - A mixture in which the components or constituents are not uniformly distributed is known as heterogeneous mixture.

(f) Homogeneous mixture

Ans - A mixture in which its constituents are uniformly distributed is known as homogeneous mixture.