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Q) A bottle of perfume on

Exercise - 1

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: Sand and charcoal, air, fruit juice, mist, petrol and water.

2. Define the following:

a) Pure Substance - Pure substance is either element or compound. It contains the same kind of atom or molecules and has a definite set of physical and chemical properties.

b) Impure Substance - A substance in which some other substances are also present in smaller or larger amounts is called an impure substance. Mixture are impure substance.

Example of impure substance is air.

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

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

e) Heterogeneous mixture - A mixture in which the components are not uniformly distributed through its volume and can be easily seen separately is called heterogeneous mixture.

f) Homogeneous mixture - A mixture in which its constituents are uniformly distributed throughout its volume and cannot be seen separately is called a homogeneous mixture.