

2/Nov/2021

Ch-5

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## Exercise - I

HW

1. ~~Homogeneous mixture~~ Salt.

1. Homogeneous mixture - salt, solution, alcohol and water, ~~air~~ dissolved in water, air dissolved in water, sea water, fruit juices, ~~brass~~.

2. ~~Hetero~~ Heterogeneous mixture - petrol and water, sand and charcoal, mist

2. a) Pure substance  $\Rightarrow$  Pure substances are either elements or ~~or~~ compounds which contain the same kind of atoms and molecules & have a definite set of physical and chemical properties.

Examples  $\Rightarrow$  Gold is an element which contains the same kind of atoms. Sugar is a compound which contains the same kind of molecules & has the same properties throughout.

b) Impure substance  $\Rightarrow$  A substance in which some other substances are ~~is~~ also present in smaller or larger amounts is called impure substance or mixture.

Example  $\Rightarrow$  Milk, bronze, ~~air~~ ink  
air, ink & petrol are  
some example of mixtures

c) Alloy  $\Rightarrow$  Metal made by two  
types of metal  
together is an alloy  
known as alloy.

Example  $\Rightarrow$  Bronze is  
a metal made by  
zinc and copper.

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

Example  $\Rightarrow$  Salt solution is a  
mixture of salt and water

e) Heterogeneous Mixture  $\Rightarrow$  A mixture in which  
the components or constituents are  
not uniformly distributed throughout  
its volume and can be easily seen  
separately is called a heterogeneous  
mixture.

Example  $\Rightarrow$  Soil is a mixture of many  
compounds and elements.

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

Example  $\Rightarrow$  Salt solution is a mixture made up of salt and water.

