

Ex-I

HW = ~~9/10/2021~~

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1. Select homogeneous and heterogeneous mixture from the following.

Ans =

Homogeneous

salt solution, air dissolved in water

Juices

mist

Brass

alcohol and water

Heterogeneous
Petrol in water
Sand and charcoal
~~alcohol and water~~
~~in~~ air
Sea water

2. Define the following with an example for each:

(a) Pure substance - Pure substances are either elements or compounds. They contain the same the same kind of atoms and molecules and have a definite set of physical and chemical properties. Ex: Gold, Sugar

(b) Impure substance - A substance in which some other substances are also present in smaller or larger amounts are called impure substances or mixture. Ex - ~~mixture of~~ oxygen, Smoke.

(c) Alloy - A homogeneous (solid)

mixture of a metal and metal or a non-metal and metal.

EX- Brass: copper + zinc

Steel: Iron + carbon

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

EX- Salt solution

(e) Heterogeneous mixture:

A mixture in which the constituents or components are not uniformly distributed and can be seen separately is called heterogeneous mixture.

3.

Air

(f) Homogeneous: The mi:
Example: Sand and iron
fillings, sand and sugar,
sand and salt

(f) Homogeneous mixture: The
mixture in which the compo-
nents or constituents are
uniformly distributed and
cannot be seen easily is
called homogeneous mixture.

Ex: Alloys such as brass
and bronze, sugar in
water.