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

and Homogeneous mixture:
Salt solution, alcohol and water, air dissolved in water, seawater, fruit juices, brass.

Heterogeneous mixture:
Petrol and water, sand and charcoal, air, mist

2) a) Pure substance: It contains same kinds of atoms or molecules and has a definite set of physical and chemical properties.
Ex: - Elements and Compounds

b) Impure substance: A substance in which some other substances are present in smaller or larger quantities is called an impure substance.
Ex: - Air

c) Alloy: - It is an homogeneous mixture of two or more metals or one metal and non-metal is called an alloy.
Ex: - Bronze

d) Solution :- The homogeneous mixture of water or any other solvent and any substance soluble in the solvent is called a solution.
Ex: Salt 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 a Heterogeneous mixture.
Ex: - Petrol and water, Air.

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