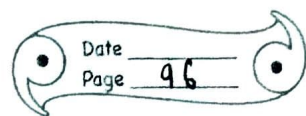


# Pure Substances & Mixtures; 5

## 06/09/23 Separation of Mixtures



Q1. Differentiate between pure substances and mixtures.

Ans - Pure substances are either elements or compounds. They contain the same kind of atoms and molecules and have a definite set of physical and chemical properties. Pure substance is a homogeneous ~~mixture~~.  
Example - Gold

Mixtures - A substance in which some other substances are also present in smaller or larger amounts is called a mixture or impure substance.  
Example: Air is a mixture.

Q2. Ans - Homogeneous mixtures - Alcohol with water, sugar with water, salt with water

Heterogeneous mixtures - Oil with water, sand and air, stone with rice

Q3. Ans - Winnowing - Example: Take a mixture of rice and husk. When it is allowed to fall from a height, rice grains,

being heavier, fall vertically down while husk gets blown away by air and forms a heap at a small distance away from the heap of rice. In this way, rice is separated from husk.

The process of separation of grain from husk ~~at~~ and hay with the help of wind is called winnowing.