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Q1. Differentiate between pure substances and mixtures.

Pure substances are either elements or compounds which contain the same kind of molecule and atoms and have a set of physical and chemical ~~process~~ properties, while mixtures are substances in which some other substances are also present in smaller or larger amount.

Q2. Give <sup>3</sup> ~~two~~ examples each of homogeneous and heterogeneous mixtures.

Homogeneous - Solid + Solid  $\rightarrow$  Alloys

Liquid + Liquid  $\rightarrow$  water + alcohol

Gas + Liquid  $\rightarrow$  Carbon dioxide + water.

Heterogeneous - Solid + Solid  $\rightarrow$  Sand and iron filings

Liquid + liquid  $\rightarrow$  Oil in water

Liquid + gas  $\rightarrow$  mist.

Q3. Explain the principle of the process of winnowing for separation of solid-solid mixture.

Winnowing is used to separate heavier and lighter components of a mixture or impurities by wind or by blowing air.