Name: _____ Date: _____

Separation of Substances

Q1. Define the following terms:

Ans. a. Solution

_____

b. Solute

_____

c. Solvent

_____

d. Strainer

_____

Q2. What is winnowing? Where is it used?

Ans. _____

_____

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_____

Q3. Why do we separate substances?

Ans. _____

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Separation of Substances

Q1. Define the following terms:

a. Solution

A mixture of soluble solid in liquid is called solution.

b. Solute

Substance that is dissolved is called solute.

c. Solvent

The liquid in which the solute dissolves is called solvent.

d. Strainer

Strainer is a device with holes punched in it or made of crossed wires for separating solid matter from a liquid.

Q2. What is winnowing? Where is it used?

Ans. Winnowing is the method in which heavier components of the mixture are separated from the lighter components such as chaff, dirt, etc. by dropping mixture from height into the air. This method is used by farmers to separate husk and other lighter impurities from grains.

Q3. Why do we separate substances?

Ans. We need to separate the components of a mixture for the following reasons:

1. To separate two different but useful components from the mixture.
2. To remove non – useful components from the mixture.
3. To remove impurities or harmful substance from the mixture.
4. To remove the unwanted impurities from the mixture.
5. To obtain pure substances by removing the other substances.