

Name: _____ Date: _____

Separation of Substances

Q1. How can we separate oil and water from their mixture?

Ans. _____

Q2. Why are we able to dissolve more solute in a solvent at high temperature?

Ans. _____

Q3. Why sieving is not used to separate very small stones from rice grains?

Ans. _____

Q4. There are 3 beakers half filled with water. Now add 3 spoon of sugar in first beaker, 5 spoon of sugar in second beaker and 7 spoon of sugar in third beaker. Stir the solution of all three beakers. Which solution is more saturated?

Ans. _____

Q5. Define the term: Hand picking

Ans. _____

Separation of Substances

Q1. How can we separate oil and water from their mixture?

Ans. Oil floats on water and form separate layer. Separating funnel can be used to separate the two.

Q2. Why are we able to dissolve more solute in a solvent at high temperature?

Ans. We are able to dissolve more solute in a solvent at high temperature because high temperature facilitates dissolving reaction by providing energy to break bonds in the solid.

Q3. Why sieving is not used to separate very small stones from rice grains?

Ans. Sieving is not used to separate very small stones from rice grains because both are of almost same size and both will pass through the holes of the sieve.

Q4. There are 3 beakers half filled with water. Now add 3 spoon of sugar in first beaker, 5 spoon of sugar in second beaker and 7 spoon of sugar in third beaker. Stir the solution of all three beakers. Which solution is more saturated?

Ans. Third beaker

Q5. Define the term: Hand picking

Ans. Handpicking is a method used to separate larger impurities like pieces of dirt, stones etc. just by picking them out with the help of hand from the mixture.