

Chapter 3: Mixtures

Worksheet 1

1. Write T for true and F for false statement.

- (i) Husk and grains can be separated by winnowing.
- (ii) Rice can be separated from a mixture of rice and dal by handpicking.
- (iii) Evaporation is the process of converting water vapour into liquid water.
- (iv) Grains and stalk are separated by winnowing.
- (v) The process of pouring out of the liquid without disturbing the sediment is called sedimentation.

2. Fill in the blanks.

- (i) At a construction site, pebbles and sand are separated by _____.
- (ii) The substance that flows through the filter paper is _____.
- (iii) The constituents of a mixture of sand, saw dust and salt can be separated by using _____.
- (iv) The substance that remains in the filter is _____.
- (v) _____ process is used to separate a mixture of sand and water.

3. Answer these questions.

- (i) What is a mixture?
- (ii) What is the solution containing water called?
- (iii) Does a compound melt at a fixed temperature?
- (iv) Which process is used to separate the components of a mixture only if one of the components can be attracted by magnet?
- (v) Differentiate between suspension and emulsion.

4. Define the following.

- (i) Residue
- (ii) Alloys
- (iii) Decantation
- (iv) Solute
- (v) Solvent

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Worksheet 2

1. Give one word for the following.

- (i) The substance that settles down at the bottom of a liquid.
- (ii) The process of separating liquid from a mixture using a filter paper.
- (iii) A mixture of sugar and water is said to be this mixture.
- (iv) This milky-looking liquid is formed by mixing cooking oil with water.
- (v) The components are not mixed together completely in this mixture.

2. Match the columns.

Column A

- (i) Evaporation
- (ii) Filtration
- (iii) Solute
- (iv) Sieving
- (v) Solvent

Column B

- (a) Sugar
- (b) Stones from sand
- (c) Salt from sea water
- (d) Water
- (e) Insoluble solids in liquids

4. Answer these questions.

- (i) Define solutions.
- (ii) Write one example of heterogeneous mixture.
- (iii) What is meant by suspension?
- (iv) Name the method used to separate a mixture of various sized particles.
- (v) How can you separate salt from salt solution?

5. Write the differences between the following.

- (i) Threshing and winnowing
- (ii) Homogeneous and heterogeneous mixtures