Class 6 Science Chapter 4 - Separation of Substances

Short Questions with Answers

1. Why do we separate substances?
Answer: We separate substances to remove impurities and obtain useful materials.

2. What is handpicking?
Answer: Handpicking is the method of removing unwanted materials by hand.

3. What is threshing?
Answer: Threshing is the process of separating grains from stalks.

4. What is winnowing?
Answer: Winnowing is the process of separating lighter husk from heavier grains using wind.

5. What is sieving?
Answer: Sieving is the method of separating particles of different sizes using a sieve.

6. What is sedimentation?
Answer: Sedimentation is the settling down of heavier insoluble particles at the bottom of a liquid.

7. What is decantation?
Answer: Decantation is the process of pouring out the clear liquid after sedimentation.

8. What is filtration?
Answer: Filtration is the method of separating insoluble solids from liquids using a filter.

9. How is salt obtained from seawater?
Answer: Salt is obtained from seawater by evaporation.

10. Give one example of a soluble substance.
Answer: Sugar or salt is a soluble substance.

Separation of Substances - Long Questions with Answers (Class 6)

1. Explain different methods of separation of substances.
There are several methods used to separate substances such as handpicking, threshing, winnowing, sieving, sedimentation, decantation, filtration, and evaporation. Each method is used based on the type and properties of the substances involved.

2. Describe the process of sedimentation and decantation.
Sedimentation is the process in which heavier insoluble particles settle down at the bottom of a liquid. After that, decantation is done by gently pouring the clear liquid into another container without disturbing the settled particles.

3. What is winnowing? Explain with an example.
Winnowing is the process of separating lighter components from heavier ones with the help of wind. For example, farmers use winnowing to separate husk from grains.

4. Explain the method of filtration.
Filtration is used to separate insoluble solids from liquids. A filter paper or cloth is used to trap the solid particles while the liquid passes through.

5. What is evaporation? How is it useful?
Evaporation is the process of converting liquid into vapor by heating. It is useful for obtaining dissolved solids like salt from seawater.

6. Describe threshing process.
Threshing is the process of separating grains from stalks. It is done manually or with machines like threshers.

7. What is sieving? Where is it used?
Sieving is the method of separating particles of different sizes using a sieve. It is commonly used in flour mills and construction sites.

8. Why is separation of substances important?
Separation helps remove unwanted materials, obtain pure substances, and make materials suitable for use.

9. Explain handpicking with example.
Handpicking is the simplest method of separation in which larger impurities are picked out by hand. For example, stones are removed from rice.

10. Explain how salt is obtained from seawater.
Seawater is kept in shallow pits and allowed to evaporate under sunlight. Water evaporates and salt is left behind.

Class 6 Science - Separation of Substances (MCQ)

1. Which method is used to remove husk from grains?
   A. Sieving
   B. Winnowing
   C. Filtration
   D. Evaporation
Answer: B

2. Which process is used to separate tea leaves from tea?
   A. Sedimentation
   B. Filtration
   C. Threshing
   D. Churning
Answer: B

3. Which method separates heavier and lighter particles using wind?
   A. Winnowing
   B. Handpicking
   C. Loading
   D. Decantation
Answer: A

4. What is used to separate stones from rice?
   A. Evaporation
   B. Handpicking
   C. Condensation
   D. Churning
Answer: B

5. Which method is used to get salt from seawater?
   A. Sieving
   B. Evaporation
   C. Threshing
   D. Winnowing
Answer: B

6. When insoluble particles settle at the bottom, it is called:
   A. Condensation
   B. Sedimentation
   C. Loading
   D. Churning
Answer: B

7. Pouring clear water from above settled impurities is called:
   A. Decantation
   B. Threshing
   C. Sieving
   D. Filtration
Answer: A

8. Which of these is soluble in water?
   A. Sand
   B. Salt
   C. Chalk powder
   D. Sawdust
Answer: B

9. Which method uses a filter paper or cloth?
   A. Filtration
   B. Winnowing
   C. Threshing
   D. Handpicking
Answer: A

10. Which process is used by farmers to separate grains from stalks?
A. Threshing
B. Evaporation
C. Loading
D. Decantation
Answer: A

Class 6 Science Chapter 4 - Separation of Substances

One Word Questions with Answers

1. Process of separating husk from grain using wind.
Answer: Winnowing

2. Method used to remove stones from rice.
Answer: Handpicking

3. Process of separating insoluble solid from liquid using filter.
Answer: Filtration

4. Getting salt from seawater by heating.
Answer: Evaporation

5. Settling of heavier particles at bottom.
Answer: Sedimentation

6. Pouring clear liquid after settling.
Answer: Decantation

7. Substance that dissolves in water.
Answer: Soluble

8. Substance that does not dissolve in water.
Answer: Insoluble

9. Tool used to separate particles of different sizes.
Answer: Sieve

10. Process of separating grains from stalks.
Answer: Threshing

11. Method of adding alum to clear muddy water.
Answer: Loading

12. Example of soluble substance.
Answer: Sugar

13. Example of insoluble substance.
Answer: Sand

14. Cloth used in filtration.
Answer: Filter

15. Pure water vapor changes into water drops.
Answer: Condensation