

Methods of Separating Mixtures

Science · Answer Key · 15 Questions

1. Which technique involves pouring off a liquid while leaving the sediment at the bottom?

A) Decantation

- B) Winnowing
- C) Filtering
- D) Sieving

2. What is the primary purpose of winnowing?

A) To heat a liquid

B) To remove lighter materials using air

- C) To pick items by hand
- D) To use a magnet

3. Which method uses a scoop or spoon to remove larger materials?

- A) Sieving
- B) Picking

C) Scooping

D) Evaporation

4. Why is picking used as a separation technique?

- A) To remove magnetic items
- B) To separate liquids

C) To ensure only safe or desired materials are used

D) To get uniform particle size

5. What happens during the process of evaporation?

A) Liquid turns to vapor, leaving solids behind

- B) Solids turn to liquid
- C) Air is blown through the mixture
- D) A magnet pulls out metals

6. Which technique is best for separating insoluble solids from liquids using filter paper?

A) Decantation

B) Filtering

- C) Winnowing
- D) Using magnets

7. What is the main benefit of using a sieve?

- A) Removing magnetic materials
- B) Obtaining clear liquid
- C) Getting uniform particle sizes**
- D) Removing lighter particles with air

8. How do you separate magnetic materials from a mixture?

- A) Using a sieve
- B) Using evaporation
- C) Using a magnet**
- D) Using winnowing

9. Which technique is used to obtain clean rice for eating?

- A) Winnowing**
- B) Decantation
- C) Filtering
- D) Evaporation

10. What product is typically obtained by the process of evaporation?

- A) Clean rice
- B) Salt for cooking**
- C) Clear water
- D) Fine flour

11. Which separation method is used to produce fine flour for baking?

- A) Picking
- B) Scooping
- C) Sieving**
- D) Decantation

12. What is the useful product obtained by filtering water or fruit juice?

- A) Solid salt
- B) Clear liquid free from particles**
- C) Iron for recycling
- D) Beans for cooking

13. Which technique is commonly used to separate beans for cooking?

- A) Scooping**
- B) Winnowing
- C) Evaporation
- D) Filtering

14. What is the benefit of using magnets in a mixture?

- A) It creates clear liquid
- B) It ensures safety and purity by removing metals**
- C) It separates liquids based on weight
- D) It creates uniform particles

15. Which technique relies on gravity to keep sediment at the bottom?

- A) Decantation**
- B) Sieving
- C) Filtering
- D) Winnowing