

Methods of Separating Mixtures

Science · Practice Test · 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