

Class: VI
Subject: Chemistry
Topic: Separation of substances
No. of Questions: 20

1. How is cream obtained from milk?
2. Why do we need to separate different components of a mixture? Give two examples.
3. Paheli bought some vegetables such as French beans, lady's finger, green chillies, brinjals and potatoes all mixed in a bag. Which of the following methods of separation would be most appropriate for her to separate them?
 - A. Winnowing
 - B. Sieving
 - C. Threshing
 - D. Hand picking
4. You are given a mixture of salt & sand, how would you separate them?
5. How will you separate husk or dirt particles from a given sample of pulses before cooking?
6. Boojho's grandmother is suffering from diabetes. Her doctor advised her to take 'Lassi' with less fat content which of the following methods would be most appropriate for boojho to prepare it?
 - A. Filtration
 - B. Decantation
 - C. Churning
 - D. Winnowing
7. Explain the method of abstaining common salt from sea water.
8. What is sieving? Where is it used?
9. Which of the following mixtures would you be able to separate using the method of filtration?
 - A. Oil in water

- B. Cornflakes in milk
- C. Salt in water
- D. Sugar in milk

10. Differentiate between hand picking & winnowing.

11. Is it possible to separate sugar mixed with wheat flour? If yes, how will you do it?

12. You might have observed the preparation of ghee from butter and cream at home. Which method(s) can be used to separate ghee from the residue?

- (i) Evaporation
- (ii) Decantation
- (iii) Filtration
- (iv) Churning

Which of the following combination is the correct answer?

- A. (i) and (ii)
- B. (ii) and (iii)
- C. (ii) and (iv)
- D. (iv) only

13. Why filtration is preferred over decantation?

14. How would you obtain clear water from a sample of muddy water?

15. In an activity, a teacher dissolved a small amount of solid copper sulphate in a tumbler half filled with which method would you use to get back solid copper sulphate from the solution?

- A. decantation
- B. Evaporation
- C. Sedimentation
- D. Condensation

16. Why do we employ the method of loading sometimes after sedimentation & decantation?

17. During summer, Boohoo carries water in a transparent plastic bottle to his school. One day he left his bottle in the school. The bottle still had some water left in it. The following day, he observed some water droplets on the bottle. These droplets of water were formed due to

- A. Boiling and condensation.
- B. Evaporation and saturation
- C. Evaporation and condensation.
- D. Condensation and saturation.

18. Identify the following as pure substances & mixtures :
Silver, salt, Sharbat & jam.

Ans. Silver pure substance

 Salt Pure substance

 Sharbat mixture

 Jam mixture

19. Paheli asked for a glass of water from boojho. He gave her a glass of ice cold water. Paheli observed some water droplets on the outer surface of the glass and asked boojho how these droplets of water were formed? Which of the following should be boojho's answer?

- A. Evaporation of water from the glass.
- B. Water that seeped out from the glass.
- C. Evaporation of atmospheric water vapour.
- D. Condensation of atmospheric water vapour.

20. A boy has got a mixture containing salt, tea leaves & oil, how will he separate the components?

Ans: First he will sieve the solution to obtain tea leaves. Then the solution would be left with salt & oil, now he will use distillation to separate salt & oil, on heating oil will go from one beaker to another & then decantation is employed to separate oil from mixture.