

# CHEMISTRY

## BOOKS - MBD

### SEPRATION OF SUBSTANCES

#### Example

1. Why do we need to separate different components of a mixture ?Give two examples.



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2. What is winnowing ? Where is it used ?



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3. How will you separate husk or dirt particles from a given sample of pulses before cooking ?



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4. What is sieving ?Where is it used?



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5. How will you separate sand and water from their mixture ?



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



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



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8. Fill up the blanks:

The method of separating seeds of paddy from its stalks is called .....



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**9. Fill up the blanks:**

When milk, cooled after boiling , is poured onto a piece of cloth the cream ( malai) is left behind on it .This process of separating cream from milk is an example of .....



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**10. Fill up the blanks:**

Salt is obtained from sea water by the process of .....



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**11.** Fill up the blanks:

Impurities settled at the bottom when muddy water was kept overnight in a bucket. The clear water was then poured off from the top. The process of separation used in this example is called .....



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**12.** True or false ?

A mixture of milk and water can be separated by filtration.



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**13.** True or false ?

A mixture of powdered salt and sugar can be separated by the process of winnowing.



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**14.** True or false ?

Separation of sugar from tea can be done with filtration.



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**15.** True or false ?

Grain and husk can be separated by the process of decantation.



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**16.** Lemonade is prepared by mixing lemon juice and sugar in water. You wish to add ice to cool it. Should you add ice to the lemonade before or after dissolving sugar? In which case would it be possible to dissolve more sugar?



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**17.** By which process can sand be removed from a sample of water?



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**18.** Which method is used to separate butter from milk?



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**19.** By which method fine particles of sand are removed from rice ?



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**20.** For separating husk from wheat grains, which method is used ?



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**21.** While making tea by which method are tea leaves removed from tea?



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**22.** Why do we need to separate different components of a mixture ? Give two examples.



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**23.** What are the different methods of separation?



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**24.** What is winnowing ? Where is it used ?



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**25.** What is sieving ?Where is it used?



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**26.** By which method the impurities present in wheat flour are removed ?



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27. How are lighter impurities present in rice and pulses are removed before cooking them?



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28. What is sedimentation?



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29. What is decantation ?



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**30.** Which process is used in homes for separating Paneer?



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**31.** Which process is used for separating salt from water ?



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**32. What is Evaporation ?**



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**33. What is condensation ?**



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**34. Fill in the blanks:**

Butter is separated from milk by the process  
of .....





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**35.** How can fine dust particles are separated from rice ?



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**36.** Fill in the blanks:

..... method is used for separating husk from food grains .



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**37.** Fill in the blanks:

Sand and spices are separated from their mixture by ..... process.



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**38.** Which property is made use of while separating the constituents of the following mixtures:

Wheat grains and husk.



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**39.** Which property is made use of while separating the constituents of the following mixtures:

Sand and salt.



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**40.** Give the method involved in separating a mixture of wheat, sugar and husk.



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**41.** Give one example of evaporation.



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**42.** Define the following :

Distillation.



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**43.** Define the following:

Sedimentation.



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**44.** How is muddy water purified ?



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**45.** Why is curd churned to separate butter from it ?



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**46.** What is a mixture ?Write two properties of mixture.



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**47.** You are given a mixture of common salt and chalk powder .How will you separate its components ?



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**48.** Distinguish between pure substance and impure substance.



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**49.** How is common salt obtained from seawater?



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**50.** How will you separate pure water from sea water?



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**51.** Describe the method of obtaining pure salt from impure salt.



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**52.** What is filtration ?Write a few activities where this method is being used.



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**53.** What are different methods of separating mixtures ?Explain any two of them.



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54. Separation of mango and guava can be done by-

A. Sieving

B. Winnowing

C. Handpicking

D. None.

**Answer:**



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55. Winnowing method is used to separate light particles from ..... particles.

A. Heavy

B. soft

C. Big and light

D. All of these.

**Answer:**



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**56.** The process of separating husk from grains is-

- A. Threshing
- B. Hand picking
- C. Winnowing
- D. Sieving.

**Answer:**



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57. Wind is used to separate components in this method.

- A. Churning
- B. Winnowing
- C. Threshing
- D. Filtration

**Answer:**



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**58.** The object used to separate husk and dust particles from wheat flour is -

A. Air

B. Hand picking

C. Sieve

D. Water.

**Answer:**



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59. When size of particles is small ,then process used is-

- A. Decantation
- B. Sieving
- C. Winnowing
- D. Hand picking

**Answer:**



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60. Filtration is done by .....

A. Filter paper

B. Thin cloth

C. Sieve

D. All of these.

**Answer:**



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61. The process of separating two immiscible liquids is .....

A. Sedimentation

B. Decantation

C. Winnowing

D. Sieving.

**Answer:**



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**62.** The solution salt in water in which no more salt can be dissolved is called-

- A. Saturated solution
- B. Unsaturated solution
- C. Impure solution
- D. None.

**Answer:**



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**63.** Evaporation is used to separate-

A. Salt from sea water

B. Tea leaves

C. Dust particles

D. All of these.

**Answer:**



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**64.** The process of changing water vapours into water droplets is called-

- A. Boiling
- B. Condensation
- C. Cooling
- D. None.

**Answer:**



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65. The constituent present in sea water is -

- A. Minerals
- B. Dust particles
- C. Impurities
- D. All of these.

**Answer:**



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66. Rice is separated from husk by the process-

A. Sieving

B. Hand picking

C. Winnowing

D. All of these.

**Answer:**



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**67.** select correct statement (s) : blood is a colloidal solution, Alum is used in water purification, River water is a colloidal solution

of clay, Colloidal medicines are more effective due to large surface area.

A. Loading

B. Sedimentation

C. Separating magnetic substances

D. None of these

**Answer:**



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68. .... is a magnetic substance.

A. Plastic ball

B. Glass toys

C. Earthenware

D. Iron nail.

**Answer:**



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69. .... is used in the loading process.

A. common salt

B. Alum

C. sugar particle

D. All of these.

**Answer:**



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70. Mixture of sand and iron filing is separated by the process of :

A. Winnowing

B. Handpicking

C. Sieving

D. Magnetic separation

**Answer:**



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71. For preparing Shikanji the temperature should be ..... so that sugar may dissolved readily.

A. High

B. Low

C. Normal

D. Any of these

**Answer:**



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72. Butter is separated from milk by the process called :

- A. Churning
- B. Sedimentation
- C. Filtration
- D. Hand picking

**Answer:**



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73. To separate pebbles from sand, which method would be used :

- A. Winnowing
- B. Handpicking
- C. Centrifugation
- D. None of these

**Answer:**



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74. The components of sugar solution can be separated by:

- A. Evaporation
- B. Filtration
- C. Sedimentation
- D. Decantation.

**Answer:**



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75. The process of change of water into its vapours is called :

A. Transpiration

B. Decantation

C. Evaporation

D. Condensation.

**Answer:**



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