Separation of Substances

1M

- 1. The strainer to strain tea from tea leaves acts as a
- (A) Filter(B) Condenser(C) Boiler(D) Churner
- 2. A mixture of sand and dried leaves can be separated by -
- (A) Magnetic separation.(B) Hand picking.(C) Winnowing.(D) Sieving.
- 3. A mixture of salt and water can be separated by this process
- (A) Evaporation(B) Filtration(C) Sedimentation(D) Handpicking
- 4. When a mixture of sugar in water cannot dissolve more of sugar at room temperature, the solution is called
- (A) Saturated solution(B) Unsaturated solution
- (C) Super saturated solution(D) None of the above
- 5. Condensation is a process when
- (A) Aliquid changes into its vapours.(B) The vapours change into liquid.
- (C) Ice melts to form water.(D) Water freezes to form ice.
- 6. When muddy water is left undisturbed
- (i) The mud settles down.(ii) Some mud particles remain floating in water.
- (iii) The water can be decanted and separated.
- (iv) The process of filtration can be used to separate mud particles completely.

Which of the above is correct?

- (A) (iii) & (iv) (B) (i) Only(C) (i) & (iv) (D) All the above
- 7. The process used to separate grains from stalk is
- (A) Threshing(B) Winnowing(C) Handpicking(D) Sieving
- 8. Match the following and choose the answer from the code given below.
- (A) Separates stones from sand
- (i) Filtration
- (B) Separates wheat from husk
- (ii) Winnowing
- (C) Separates tea leaves from tea
- (iii) Churning
- (D) Separates butter from curd

(iv) Sieving

- (A) A- (ii), B-(iii), C-(i), D-(iv)
- (B) A- (ii), B-(iv), C-(i), D-(iii)
- (C) A- (iii), B-(iv), C-(ii), D-(i)
- (D) A- (iv), B-(i), C-(ii), D-(iii)
- 9. When salt water in a beaker is boiled, the water..... and is left behind
- (A) Boils, sand(B) Evaporates, salt(C) Evaporates, sand(D) Vaporizes, nothing
- 10. Dust particles when mixed with water settle down at the bottom of the container because
- (A) They react with water.(B) They are miscible in water.

- (C) They become heavier when water is poured on them.
- (D) None of the above.
- 11. We need to separate the components of a mixture because
- (i) Mixtures are useless.
- (ii) Non useful components need to be separated from useful ones.
- (iii) Impurities and harmful substances need to be removed.
- (iv) The components are different and invisible.
- (A) (i) only (B) (ii) & (iii) (C) (iii) & (iv) (D) (iv) only
- 12. Match the items of column 'A' with the items of column 'B':

Column A	Column B
I. Pulp form fruit juice	(a) Threshing
II. Sieving	(b) Churning
III. Butter from milk	(c) Husk from wheat
IV. Grains from stalks	(d) filtration

- (A) I b, II- d, III a, IV c(B) I a, II c, III b, IV d
- (C) I b, II d, III c, IV a(D) I d, II c, III b, IV a
- 13. A _____ is used for separating insoluble solid particles from a liquid.
- (A) Piece of muslin cloth.(B) Filter paper.(C) Both (1) and (2).(D) None of these.
- 14. Salt is obtained from the salt water by the process of-
- (A) Magnetic separation.(B) Decantation.(C) Evaporation.(D) None of these.
- 15. The property which forms the basis of sieving is -
- (A) Difference in weight.(B) Difference in size.
- (C) Difference in shape.(D) Difference in colour.
- 16. The process used to separate two immiscible liquids is -
- (A) Sedimentation.(B) Evaporation.(C) Distillation.(D) Decantation process.
- 17. When a glass containing muddy water is left undisturbed and the mud is allowed to settle down, this method is called
- (A) Decantation(B) Filtration(C) Sedimentation(D) Evaporation
- 18. Name two materials used as filters.
- 19. The process of winnowing is based on the principle
- (I) Lighter husk particles are carried away by the wind.
- (II) Heavy grains fall down in a heap.
- (III) Husk and wheat are evincible.
- (IV) Wheat grains are blown away by the wind.

Which of above sentences is/are correct?

- (A) I only(B) I and IV(C) I and II(D) II and III
- 20. The paper used in the process of filtration to separate a mixture of sand and water is
- (A) Butter paper(B) Plain paper(C) Tissue paper(D) Filter paper
- 21. The process of conversion of water vapour into its liquid form on cooling is known as
- (A) Evaporation.(B) Condensation.(C) Distillation.(D) Decantation.
- 22. The method of handpicking is useful when
- (I) The impurities are large in quantity. (II) The impurities are large in size.
- (III)The impurities are less in quantity. (IV)The impurities are smaller in size.
- (A) I and II are correct.(B) II and IV are correct.
- (C) II and III are correct.(D) All are correct.
- 23. Name the method of separation to obtain clear water from muddy water?
- 24. The process ofis used in the manufacture of salt from sea water.
- (A) Condensation(B) Filtration(C) Evaporation(D) Sedimentation
- 25. When water changes into vapours, the process is called
- (A) Condensation(B) Heating(C) Cooling(D) Evaporation
- 26. What do you understand by a mixture?
- 27. Process used to separate mud from water is-
- (A) Evaporation.(B) Decantation.(C) Sedimentation.(D) Both (2) and (3).
- 28. Which property of the constituents of a mixture is used in winnowing.
- 29. Define Filtration.
- 30. A mixture of rice and stone particles is separated by
- (A) Hand picking(B) Sieving(C) Winnowing(D) Churning
- 31. The method of sieving is used to separate
- (A) Components of same size. (B) Components of different size.
- (C) Soluble impurities.(D) Liquid impurities.
- 32. The process of drying the wheat stalks in the sun and then beating them to separate the grains is called
- (A) Winnowing(B) Threshing(C) Churning(D) Sieving
- 33. Which of the following mixtures use filtration as method of separating components?
- (i) Salt in water(ii) Tea with tea leaves
- (iii) Chalk powder in water(iv) Fruit juice with its pulp
- (A) (i), (ii) & (iii) (B) (ii) & (iii)
- (C) (ii), (iii) & (iv) (D) (i) only
- 34. The separation of the constituents of a mixture is done to -
- (A) Remove harmful and unwanted constituents.(B) Obtain pure sample of a substance.
- (C) Obtain useful constituents.(D) All are correct.
- 35. What is decantation?

- 36. Decantation is used for -
- (A) Separating two miscible liquids having different boiling points.
- (B) Separating two immiscible liquids.
- (C) Both (A) and (B).(D) None of these.
- 37. Which principle is used for separating a mixture of two immiscible liquids.
- 38. Is it a good practice to sieve flour before consuming it?
- 39. Why hand picking method is not used in godowns to remove dirt, stone or husk from the grains of wheat and ricel
- 40. Filtration is used to separate from a liquid.
- 41. Why do we need to separate different substances present in a mixture?
- 42. Identify the mixtures from the following: Pickle, Chutney, Jam, Sugar, Water, Common salt.
- 43. What is evaporation?
- 44. A mixture of corn and husk is separated by -
- (A) Handpicking.(B) Winnowing.(C) Sieving.(D) Filtration.
- 45. Various substances present in a mixture are called-
- (A) Elements.(B) Compounds.(C) Atoms.(D) Components.
- 46. The process of settling down of particles of a solid in a liquid is -
- (A) Sublimation.(B) Sedimentation.(C) Decantation.(D) Filtration.
- 47. A solid substance is dissolved in water. Which of the following method is used for separating it?
- (A) Evaporation.(B) Decantation.(C) Filtration.(D) Sedimentation.
- 48. Find the odd one out -
- (A) Chalk powder.(B) Sand.(C) Mud.(D) Sugar.
- 49. The process of conversion of a liquid into its vapours is called-
- (A) Evaporation.(B) Filtration.(C) Sublimation.(D) Condensation.
- 50. What is condensation?

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- 51. What is a saturated solution? How can you dissolve more substance in it?
- 52. How will you separate husk or dirt particles from pulses before cooking?
- 53. You are given a mixture of sand and water. How will you separate it?
- 54. How will you make the muddy water clear?
- 55. What is sedimentation? Give example.
- 56. Name the method of separation, which is used to obtain salt from seawater. Define that method.
- 57. How will you separate sand and water from their mixture?

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- 58. How do we separate salt and sand from their mixture?
- 59. Explain the process of filtration. Give at least two examples where it is used in our daily life
- 60. What is sieving? Where is it used?
- 61. Why do we need to separate different components of a mixture? Give an example
- 62. How is salt obtained from sea water?

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- 63. when do we use the following?
- a) Threshingb) hand pickingc) filtrationd)sieving
- e) sedimentation and decantation
- 64. What is winnowing? Explain. Where is it used?
- 65. what is winnowing? Where is it used?
- 66. Is it possible to separate salt from a solution of salt in water ? If yes, how will you do it ?
- 67. What is the need for separation of substances?
- 68. How common salt is obtained from sea water?