



CHEMISTRY

NCERT - NCERT CHEMISTRY(TELUGU)

SEPARATION OF SUBSTANCES

Exercise

1. Give some examples for hand picking method of separation.



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2. Where do we use the chromatography method ?



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3. Salt water is



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4. What are the properties of the components that are used, in separating them from mixture ?



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5. Draw the diagram of filtration.



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6. Rusting of iron is physical change or chemical change



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7. How do you prepare distilled water? Explain the process of distilling water.



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8. How do you prepare distilled water? Explain the process of distilling water.



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9. a) What is sublimation ? b) How do you demonstrate the sublimation of camphor?



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10. a) What is sublimation ? b) How do you demonstrate the sublimation of camphor?



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11. Can you filter mud water using a filter paper ?



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12. An example for sublimation is



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13. How do you prepare distilled water? Explain the process of distilling water.



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14. How do you use the method of chromatography to find out what different colours are present in a coloured chalk?



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15. The stones are separated from pulses and rice by

- A. winnowing
- B. hand picking
- C. sieving
- D. sedimentation

Answer:



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16. Concrete is a -

A. single substance

B. mineral

C. mixture

D. element

Answer:



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17. Which is soluble in water :

A. Chalk powder

B. face powder

C. table salt

D. turmeric

Answer:



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18. Tea leaves are separated from tea by

A. filter paper

B. conical flask

C. funnel

D. strainer

Answer:



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19. ____ is a sieve made up of paper.

A. carbon paper

B. graph paper

C. filter paper

D. litmus paper

Answer:



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20. Which method is suitable to separate salt from sea water?

A. crystallization

B. decantation

C. sedimentation

D. winnowing

Answer:



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21. With what liquid do doctors mix injection powder before administering injections to patients?

A. Alcohol

B. distilled water

C. bromine

D. chlorine water

Answer:



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22. The substance(s) which undergo sublimation is/are

A. common salt

B. camphor

C. wax

D. sugar

Answer:



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23. How do you separate colour from a mixture of colours?

A. Photography

B. Cordiography

C. Cinematography

D. Chromatography

Answer:



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24. Petrochemicals are obtained by the fractional distillation of 'petroleum. Different compounds are formed at different temperatures. The first product obtained from petroleum is kerosene Asphalt is the residue'formed in fractional distillation. We also can get petrol, diesel, etc. from petroleum. Name the first compound formed from petroleum.

A. Sedimentation

B. Filtration

C. Distillation

D. Sublimation

Answer:



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25. Distilled water is produced by _____ method.

A. Metabolic processes

B. Chemical processes

C. Nuclear processes

D. Digestion processes

Answer:



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26. The process used to separate paddy grains from husk is _____.

A. hand picking

B. winnowing

C. sieving

D. distillation

Answer:



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27. The rain water directly from sky is mostly filtered by -

A. atmosphere

B. oxygen

C. clouds

D. soil layers

Answer:



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28. When a solid changes to directly gaseous state, the process is called

A. solubility

B. sublimation

C. decantation

D. evaporation

Answer:



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29. Sand from water is separated by

A. sedimentation

B. decantation

C. sublimation

D. A & B

Answer:



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30. The purest sample of water, is ____

A. Rain water

B. Distilled water

C. River water

D. Underground water

Answer:



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31. Which of the following compounds undergoes sublimation?

A. Camphor

B. Iodine

C. Tinker's salt

D. All of these

Answer:



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32. An insoluble substance in a liquid can be separated by

- A. Decantation
- B. Distillation
- C. Evaporation
- D. Sublimation

Answer:



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33. ___ is used for separation of dissolved substance from a liquid.

A. Filtration

B. Distillation

C. Evaporation,

D. Sedimentaton

Answer:



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34. ___ is the process used to remove insoluble impurities from a liquid.

A. Evaporation

B. Distillation

C. Filtration

D. Sublimation

Answer:



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35. Is it possible to separate sugar mixed with wheat flour ? If yes, how will you do it ? If powdered sugar is mixed with wheat flour, how do you separate them ?

A. Winnowing

B. Hand picking

C. Decantation

D. Filtration

Answer:



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36. Which separation process is used when one component is in a mixture Different shape and colour from the other ?

A. Winnowing

B. Hand picking.

C. Evaporation

D. Sublimation

Answer:



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37. Cream from milk can be separated by

A. Distillation

B. Evaporation

C. Centrifugation

D. Filtration

Answer:



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38. A mixture of saw dust and iron dust can be separated by the process of -

- A. winnowing
- B. Hand picking
- C. using a magnet

D. filtration

Answer:



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39. If one of the components is soluble in water and the other is not, we use the process ____ to separate them.

A. Distillation

B. Filtration

C. Sublimation

D. Evaporation

Answer:



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40. Separation of sugar from chalk dust can be done by the method of -

A. Winnowing

B. Decantation

C. Filtration

D. Evaporation

Answer:



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41. A clear liquid obtained after filtration

A. Filtrate

B. Filter

C. Precipitate

D. Sediment

Answer:



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42. A substance obtained by mixing two or more pure substances

A. compound

B. Element

C. mixture

D. molecule

Answer:



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43. The machine used to separate the massive particles and light particles from a mixture is

A. Winnowing

B. Hand picking

C. Filtration

D. Evaporation

Answer:



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44. The reverse process of 'evaporation' is -

A. Filtration

B. Decantation

C. Boiling

D. Condensation

Answer:



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45. How do you separate the mixture of naphthalene powder and salt powder ?

- A. Decantation and then evaporation
- B. Evaporation and then decantation
- C. Evaporation and condensation
- D. Sieving and winnowing

Answer:



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46. Sieving is used when components of mixture have -

- A. same particle size
- B. different particle sizes
- C. same or different particle sizes
- D. None

Answer:



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47. The principle in the process of sedimentation is -

A. Gravity

B. Attraction

C. Repulsion

D. Condensation

Answer:



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48. The components of Indian Ink can be identified using this technique -

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

Answer:



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49. What property helps in separating husk from grains?

A. Sieving

B. Threshing

C. Winnowing

D. Hand picking

Answer:



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50. With what liquid do doctors mix injection powder before administering injections to patients?

- A. Salt water
- B. Distilled water
- C. Sea water
- D. Sugar water

Answer:



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51. Which method is suitable to separate salt from sea water?

- A. Filtration
- B. Crystallisation
- C. Sedimentation
- D. Sieving

Answer:



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52. The mud particles which settle down at the bottom of a gas are called

A. Sediments

B. Mud

C. leaves

D. Grass

Answer:



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53. Why is hand picking necessary after winnowing?



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54. Salt water is



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55. Divya suggested some methods to separate mixtures given below. Are they correct? Find whether they are possible or not. Give reasons. Separation of sugar from tea can be done by filtration.



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56. Divya suggested some methods to separate mixtures given below. Are they correct? Find whether they are possible or not.

Give reasons. Pure water can be obtained from sea water by the process of filtration.



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57. Visit a nearby dairy and report about the processes used to separate cream from milk.



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58. Draw the diagram of getting distilled water in your house on a small scale



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59. Why doctors use distilled water for injections ? Give reasons.



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60. How water can be used in separation of different substances ? Explain with example.



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61. Visit a nearby dairy and report about the processes used to separate cream from milk.



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62. Appreciate your mother's hard work in hand picking.



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63. Observe and explain the beauty of nature and the water sources in it.



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64. Why mother sieves flour before cooking roti ? Give reasons.



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65. Tea leaves are separated from tea by

A. sieve

B. cloth

C. stainer

D. none

Answer:



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66. The stones are separated from pulses and rice by

A. sieve

B. sinnowing

C. filtratin

D. hand picking

Answer:



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67. What is winnowing ?

A. dust

B. husk

C. rice

D. sand

Answer:



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68. The mud particles which settle down at the bottom of a gas are called

A. sediments

B. mud

C. leaves

D. grass

Answer:



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69. Sea water is used for preparation of salt by the process.....

A. crystallization

B. sedimentation

C. filtration

D. evaporation

Answer:



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Example

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

powdered sugar is mixed with wheat flour,
how do you separate them ?



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2. Why is hand picking necessary after winnowing?



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3. Which separation process is used when one component is in a mixture :Heavier than the

other ?



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4. Which separation process is used when one component is in a mixture Bigger than the other ?



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5. Which separation process is used when one component is in a mixture Different shape and

colour from the other ?



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6. Which separation process is used when one component is in a mixture One is soluble in water and the other is not ?



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7. Which separation process is used when one component is in a mixture One floats and the

other sinks in water?



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8. Which method is suitable to separate salt from sea water?



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9. What is a Filter paper made of ? For what purpose is it useful?



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10. Why water droplets are formed on the lid of the rice bowl after cooking ? Give reasons.



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11. Do you think new compounds are formed by mixtures ? Give your views.



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12. Why doctors use distilled water for injections ? Give reasons.



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13. When camphor is kept in plate after some time it vanished ? Ramesh observed this and he asked his mother about . What questions he may have asked ?



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14. If you have given a mixture of sand, saw dust and salt mixed with water. What methods do you prefer to separate them ?



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15. An ink drop is split on the table. How can you remove it in absorption process ?



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16. Why tea leaves are thrown after boiling them ? Think and write.



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17. Collect information from your parents regarding various methods used by us to clean food grains at home and prepare a chart to show them.



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18. We observe that kerosene rises up in the wick of a lantern. Take a wick and put a spot of ink at one of its ends. Then dip the wick in kerosene just as you had dipped the chalk in water in the chromatography activity. Will your experiment be successful in separating the colour ink spot. Try it.



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19. What is osmosis ? Explain with example.



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20. The principle in the process of sedimentation is -



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21. Can you filter mud water using a filter paper ?



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22. How do you prepare distilled water?

Explain the process of distilling water.



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23. Draw a labelled diagram showing experimental setup required for sublimation of camphor?



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24. How do you use the method of chromatography to find out what different colours are present in a coloured chalk?



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25. Visit a nearby dairy and report about the processes used to separate cream from milk.



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26. Define mixtures. Write the components of given mixtures. Tea, laddu, lemon juice, concrete, soil.



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27. Write the components of given mixtures and mention whether they are natural or man-made. Lemonade, jangree, coffee, sand, haldi, sambar powder, drainage water, honey.



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28. List out different methods of separation of mixtures. Give one example for each method.



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29. If you have given a mixture of sand, saw dust and salt mixed with water. What methods do you prefer to separate them ?



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30. Draw a picture of article used for separation of mixture in your house.



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31. What is the method carried in the given figure ?



A. 1. Handpicking

B. 2. winnowing

C. 3. thrashing

D. 4. sorting

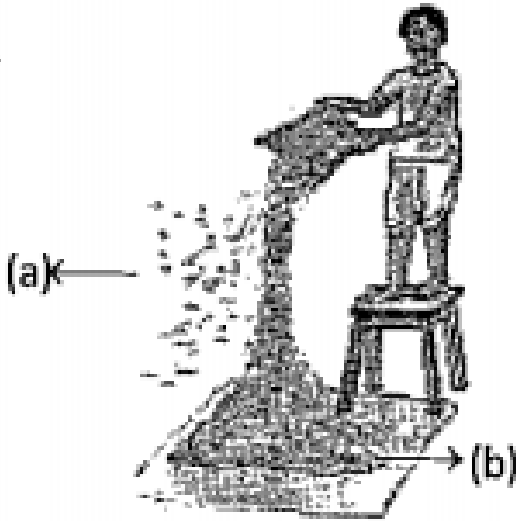
Answer:



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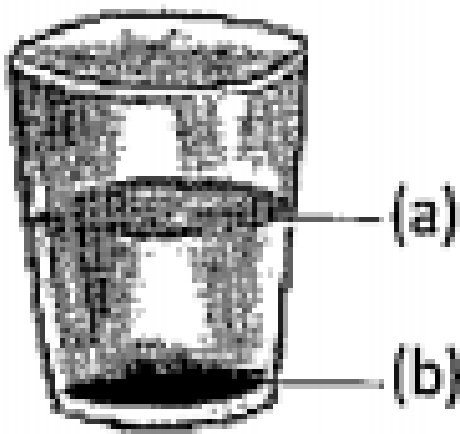
32. What is the process carried in given figure

? Name the marked parts.



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33. Observe the figure and name the marked parts. What is the process called ?



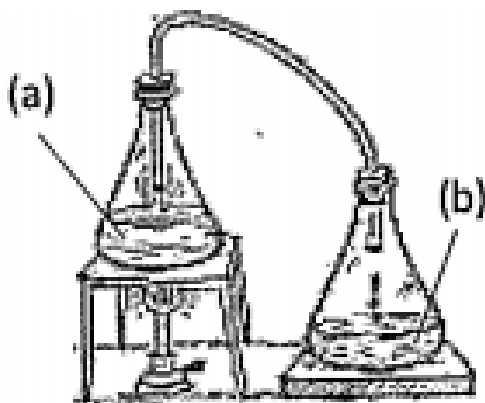
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34. What is the method of separation shown in the figure Write two lines about it.



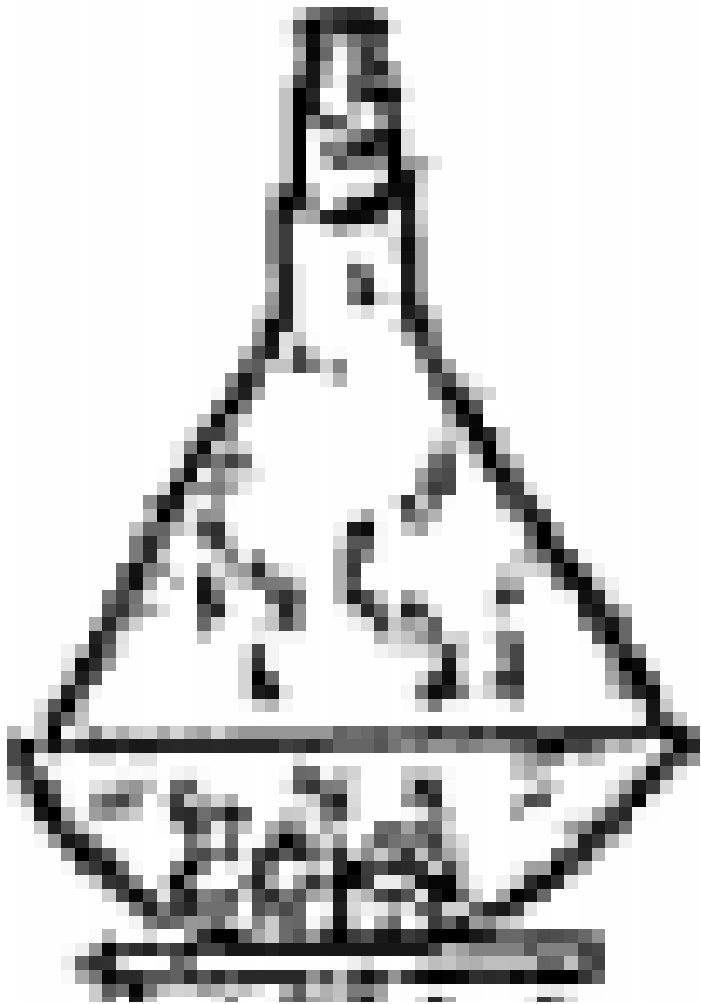
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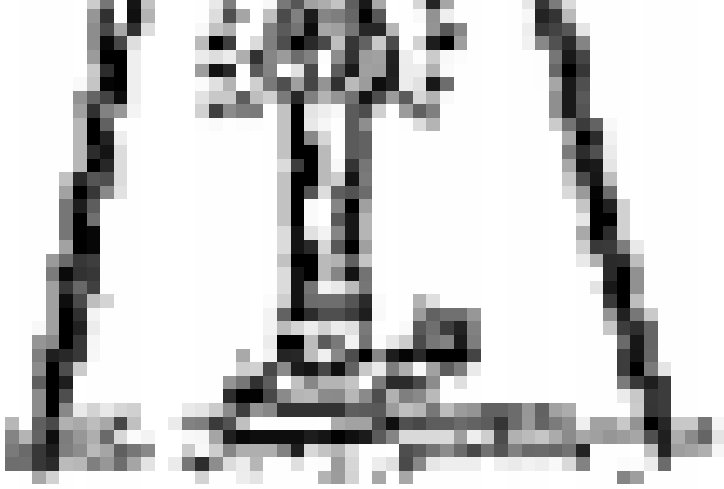
35. Name the marked parts in the figure. What is the method used in the figure ? What is the use of it ?



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36. What is the substance that is heated in the china dish ? What is the process that the compound undergoes ? Write two lines about it .

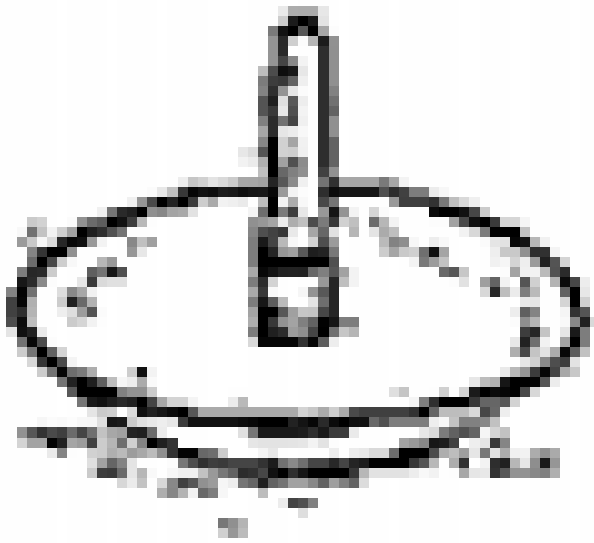




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37. What is the method used in the figure?

When it is used ?



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38. Kiran observed his father separating husk and grains by winnowing method in the field and appreciate how wind flow helping in separation.



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39. Appreciate your mother's hard work in hand picking.



[Watch Video Solution](#)

40. what is the percentage of sources of water on earth ?



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41. Show by an experiment, the process of sublimation.



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42. Srikar accidentally mixed mustard seeds with rice and salt. How can he separate. them?



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43. Divya suggested some methods to separate mixtures given below. Are they correct? Find whether they are possible or not. Give reasons. Pure water can be obtained from sea water by the process of filtration.



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44. Cheese is removed from curdled milk by the process of decantation.



Watch Video Solution

45. Separation of sugar from tea can be done by filtration.



Watch Video Solution

46. Write different examples of sieving in everyday life.



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47. Why mother sieves flour before cooking roti ? Give reasons.



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Improve Your Learning

1. Is it possible to separate sugar mixed with wheat flour ? If yes, how will you do it ? If powdered sugar is mixed with wheat flour, how do you separate them ?



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2. Why is hand picking necessary after winnowing?



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4. Which separation process is used when one component is in a mixture :Heavier than the other ?



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15. Draw a neat diagram of the process of separation of a mixture of Ammonium Chloride and common salt.



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16. Now a days it is thought that oxidation is simply decrease in electron density and reduction is increase in electron density.

How would you justify this?



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