



CHEMISTRY

BOOKS - SRS PUBLICATION

MATERIALS-SEPARATING METHODS

Question Bank

1. Combination of more than one substance
forms of



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2. The method used to separate stones from rice is



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3. The process in which a substance changes directly from solid to gaseous form and vice-versa is called.....



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4. Which of the following does not change its shape?

A. Solid

B. Liquid

C. Gas

D. None of these

Answer: A



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5. ____ is used for separation of dissolved substance from a liquid.

A. Sedimentation

B. Chromatography

C. Crystallization

D. Filtration

Answer: C



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6. Chromatography is the method used to separate

A. Mud from Water

B. Colours

C. Impurities from water

D. Husk from grains

Answer: B



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7. List five things which we can make using each of the following material : Glass



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8. List five things which we can make using each of the following material : Metal



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9. List five things which we can make using each of the following material : Plastic



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10. List five things which we can make using each of the following materials: wood



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11. Why is hand picking necessary after winnowing?



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



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



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



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15. 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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16. Which separation process is used when one component is in a mixture One floats and the other sinks in water?



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17. Mary saw a ship travelling on a sea. She knows that iron nail sinks in water. She has many doubts. What are her doubts ? Write them.



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18. We use so many wooden items in our daily life. Is it good to use wood ? What happens by excessive use of it? What is the reason ? Is there any alternative for this?



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19. How can you get your own distilled water in laboratory?



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



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21. We know that a ship, even though it is made up of tonnes of iron, floats on water. How do you feel about the scientists who found the scientific principles and efforts in making a ship?





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22. Drop an egg in a beaker of water. Now drop the same egg in another beaker of water in which excessive salt is added. Write your observation.



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23. Do the following activities. Write down your observations. What do you conclude? (a)
Mix chalk powder in water.



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24. Do the following activities. Write down your observations. What do you conclude ? :

Place a piece of candle in water.



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25. Do the following activities. Write down your observations. What do you conclude ? :

Add some oil drops to a beaker of water.





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26. Make a list of items from your kitchen like utensils, food ingredients etc. Classify them as sinks/floats and soluble/ insoluble.



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27. 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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28. Can you guess that what could have happened?



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29. Give a list of objects which would be broken and which might not be broken when they fall on the floor.



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30. Can you guess reasons why some objects broke and some did not?



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31. Can you think of any material other than ice that goes from solid to liquid, liquid to gas (vapour) ?



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32. Have you observed tea being prepared?

What substance are used for preparing tea?

List them in table 7. and also list out the

different substance that are used to make the

items given in table7.



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33. Write some mixtures you know mentioning

their components. Write also if they are

natural or man made.



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



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35. What property helps in separating husk from grains?



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36. How will you separate the tea-leaves from tea ?, Which property helped in separation of tea - leaves from tea ?



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37. Do you find any different between tea strainer and sieve used to separate flour and husk?



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38. We use sieves to separate tea-leaves from tea and sand from gravel. What are the differences between the sieves used in the two instances?



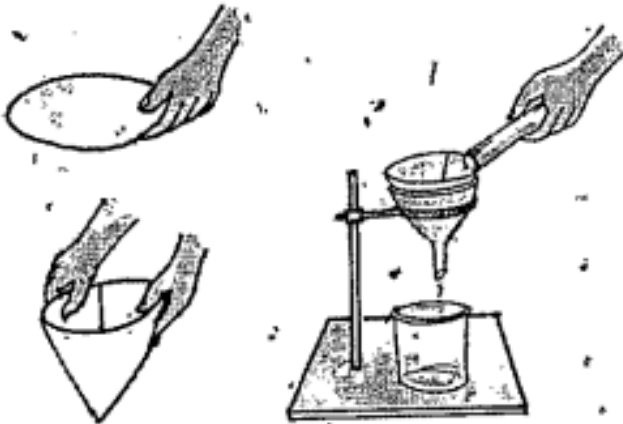
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39. Is the water clear after sieving?



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40. A friend filtered mud water with a filter paper. Can you do it?



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41. After using the filter paper to filter water what do you find ? What do you see left

behind on the paper ? What is obtained in the beaker?



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42. After using the filter paper to filter water what do you find ? What do you see left behind on the paper ? What is obtained in the beaker?



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43. After using the filter paper to filter water what do you find ? What do you see left behind on the paper ? What is obtained in the beaker?



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44. A list of things in a house are given in table 2. Name the materials from which each object may possible be made of:

S.No.	Object	Material
1.	Door	Wood, metal, rubber, paint.
2.	Towel	Cotton thread
3.	Bicycle	Iron (metal), paint, plastic fibres
4.	Knife	Steel (metal), wooden handle (or) plastic handle
5.	Mirror	Glass; plastic frame, paint
6.	Shoes	Leather (or) synthetic material
7.	Water bottle	Plastic (or) steel (or) glass
8.	Pot	Clay

Which objects are made of only one material?



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45. A list of things in a house are given in table

2. Name the materials from which each object

may possible be made of:

S.No	Object	Material
1.	Door	Wood, metal, rubber, paint.
2.	Towel	Cotton thread
3.	Bicycle	Iron (metal), paint, plastic fibres
4.	Knife	Steel (metal), wooden handle (or) plastic handle
5.	Mirror	Glass; plastic frame, paint
6.	Shoes	Leather (or) synthetic material
7.	Water bottle	Plastic (or) steel (or) glass
8.	Pot	Clay

Which objects are made of more than one material?



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46. A list of things in a house are given in table

2. Name the materials from which each object may possible be made of:

(If you don't know which material the objects

is made of, discuss with your friends and find out.)

S.No	Object	Material
1.	Door	Wood, metal, rubber, paint.
2.	Towel	Cotton thread
3.	Bicycle	Iron (metal), paint, plastic fibres
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5.	Mirror	Glass, plastic frame, paint
6.	Shoes	Leather (or) synthetic material
7.	Water bottle	Plastic (or) steel (or) glass
8.	Pot	Clay

How

many types of material can be used for making chairs?



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7.	Water bottle	Plastic (or) steel (or) glass
8.	Pot	Clay

How

many types of material can be used for making chairs?



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48. Did the candle not catch fire from a distance?



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49. Does the white smoke represent candle wax in the state of gas?



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50. What must she have argued using only one crystal or sugar and one drop of water?



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51. Think of different solids, liquids and gases around you and group them in the given table.

Solids	Liquids	Gases
Stone	Milk	Smoke
Pen	Water	Air
Box	Oil	Cooking gas
Book	Kerosene	Fumes from agarbatti

Is common salt a solid or a liquid?



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52. Think of different solids, liquids and gases around you and group them in the given table.

Solids	Liquids	Gases
Stone	Milk	Smoke
Pen	Water	Air
Box	Oil	Cooking gas
Book	Kerosene	Fumes from agarbatti

Is common salt a solid or a liquid?



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53. A tomato, brinjal, potato, iron nail, sponge, wood, stone, leaf, piece of chalk and paper are given. Predict which of them sink or float in water. Record your predictions in table.



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54. For which objects is your prediction wrong ? Why ?



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55. What do you observe in tea preparation?



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56. Do you get the same result in changing ingredients in tea? Discuss.



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57. Take five beakers with water. Take small quantities of sugar, salt, chalk powder, sand

and sawdust. Add each material to separate beakers and stir. Observe the changes and record your observations in the given table.



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



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59. Observe the given table and answer the following questions

Method of separation	Example
Sublimation	Camphor.
Crystallisation	Salt from sea water
Winnowing	Husk from grain
Sieving	Husk from flour

What is the method of separation used to separate husk from grain?



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60. Take water in a beaker. Dissolve some salt in it. Filter this mixture with a filter paper.

Were you able to separate the salt from the salt water?



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61. Why could you not filter the salt from salt water?



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62. Can we use distillation process for separating mixture of powdered salt and

camphor?



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63. What other properties can we use?



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64. Where do we use the chromatography method ?



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



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66. Some materials are given below. Separate them into “Objective made of one materials” and “ Objective made of more than one material”

Slate, Pencil, towel, Iron box, watch, belt, bottle lid.





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67. Write any 5 substance which float on salt water.



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



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



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70. Can you separate salt from sand by hand picking?



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71. What differences in the properties of rice and stone help us in separate them by hand

picking ?



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72. Give some examples of day-to-day life where hand picking method is used.



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73. What is distilled water?



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74. What are the uses of distilled water?



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75. Explain the process of Crystallization.



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76. Write some daily life applications of crystallization.



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77. How is salt manufactured ?



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78. Iron nail sinks in water. Empty iron tin box floats on water. why?



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79. Daiwik observed farmers of his village separating husk from grains. He asked a few questions to the farmer. Guess and write them.



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80. How do you separate mud and sand from muddy water ? What is sedimentation and decantation?



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81. Revathi confused about sieve and filter paper. She thought both are same clarify her doubt with a clear explanation.



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82. Explain the experiment for three states of matter in case of a candle.



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83. Take water in a beaker. Dissolve some salt in it. Filter this mixture with a filter paper. Were you able to separate the salt from the salt water?



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



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85. Hemanth purchased green chill, coriander, seeds, tomato, redgram, wheat, flour and kept them safely in a bag. While returning he fell and all the items in the bag got mixed.

Answer the following questions. Which material will he separate first?



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86. Hemanth purchased green chill, coriander, seeds, tomato, red, gram, wheat, flour and kept them safely in a bag. While returning he fell

and all the items in the bag got mixed.

Answer the following questions. How would he separate wheat flour?



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87. Hemanth purchased green chill, coriander seeds, tomato, red, gram, wheat, flour and kept them safely in a bag. While returning he fell and all the items in the bag got mixed.

Answer the following questions. How would he separate coriander seeds?



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88. 1. Collect some solid materials such as ghee, wax, sand, sugar, salt, haldi, dal, plastic, wood, iron nails. Take a bucketful of water and a beaker. Now try to discover the following:
:Which materials float on water



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89. Collect some solid materials such as ghee, wax, sand, sugar, salt, haldi, dal, plastic, wood,

iron nails. Take a bucketful of water and a beaker. Now try to discover the following

Which materials sink in water ?



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90. Collect some solid materials such as ghee, wax, sand, sugar, salt, haldi, dal, plastic, wood, iron nails. Take a bucketful of water and a beaker. Now try to discover the following

Which materials are soluble in water ?



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91. Collect some solid materials such as ghee, wax, sand, sugar, salt, haldi, dal, plastic, wood, iron nails. Take a bucketful of water and a beaker. Now try to discover the following

Which materials are not soluble in water?



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92. A mixture of sand, sawdust and salt is given the in a beaker, half-filled with water. The mixture is stirred well and allowed to settle for

10 minutes. Answer the followings questions.

Which substance floats on water?



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93. A mixture of sand, sawdust and salt is given the in a beaker, half-filled with water. The mixture is stirred well and allowed to settle for 10 minutes. Answer the followings questions. Which substance settles at the bottom of the beaker?



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94. A mixture of sand, sawdust and salt is given the in a beaker, half-filled with water. The mixture is stirred well and allowed to settle for 10 minutes. Answer the followings questions.
How can you collect sand back?



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95. A mixture of sand, sawdust and salt is given the in a beaker, half-filled with water. The mixture is stirred well and allowed to settle for

10 minutes. Answer the followings questions.

Which substance is dissolved in water?



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96. A mixture of sand, sawdust and salt is given the in a beaker, half-filled with water. The mixture is stirred well and allowed to settle for 10 minutes. Answer the followings questions.

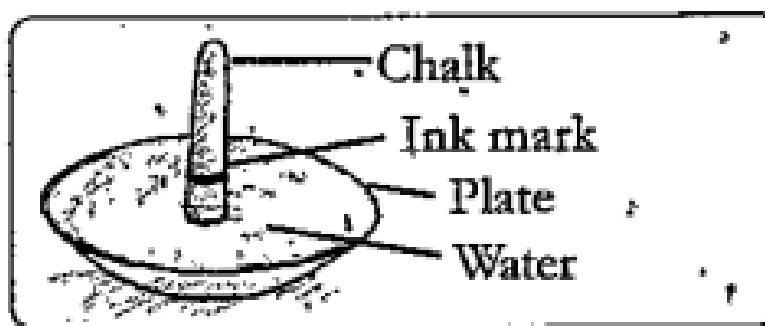
How can you get salt back



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97. Observe the diagram and answer the given question.

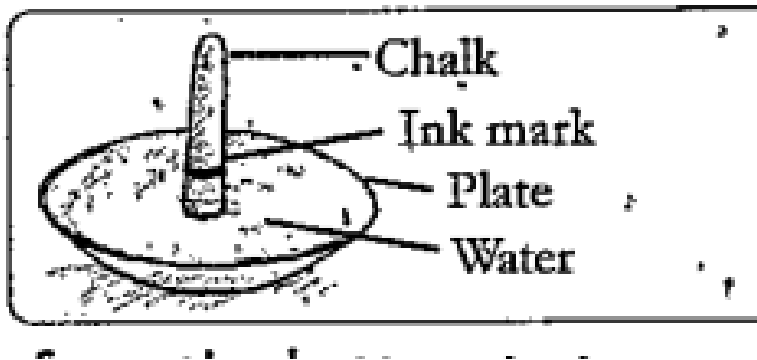
What is the name of the activity?



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98. Observe the diagram and answer the given question.

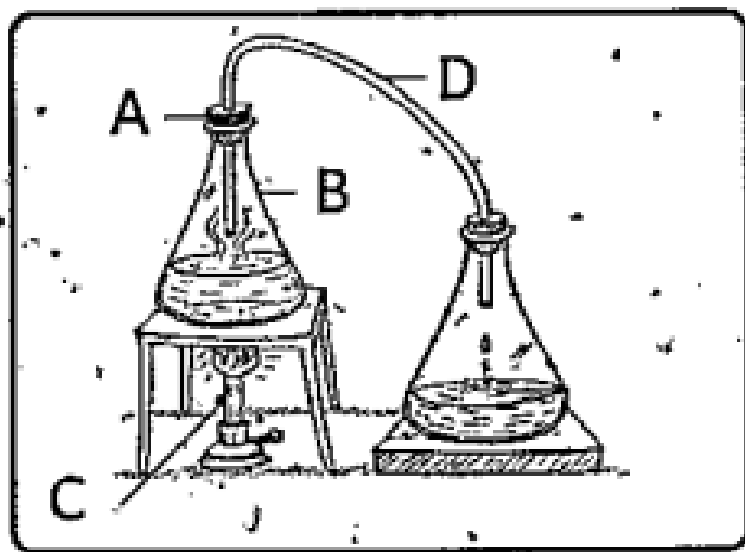
What happens to the Ink mark on the chalk when put into water?



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99. Answer the following questions by observing the diagram.

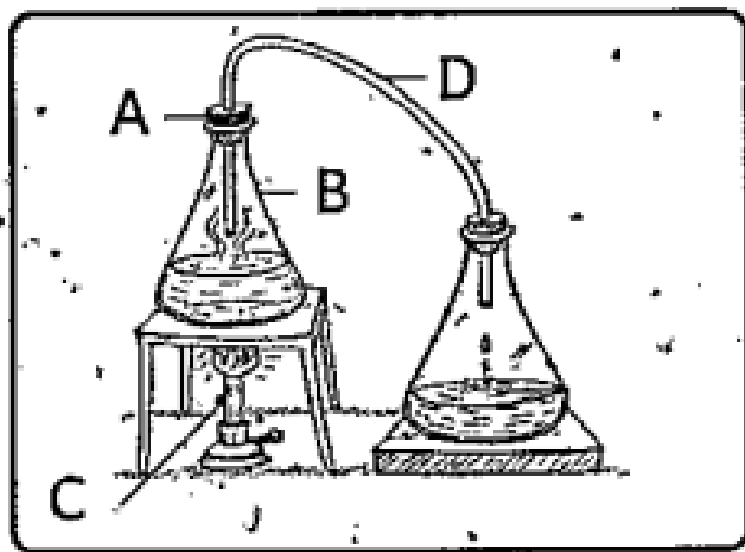
Identify the parts A,B,C and D



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100. Answer the following questions by observing the diagram.

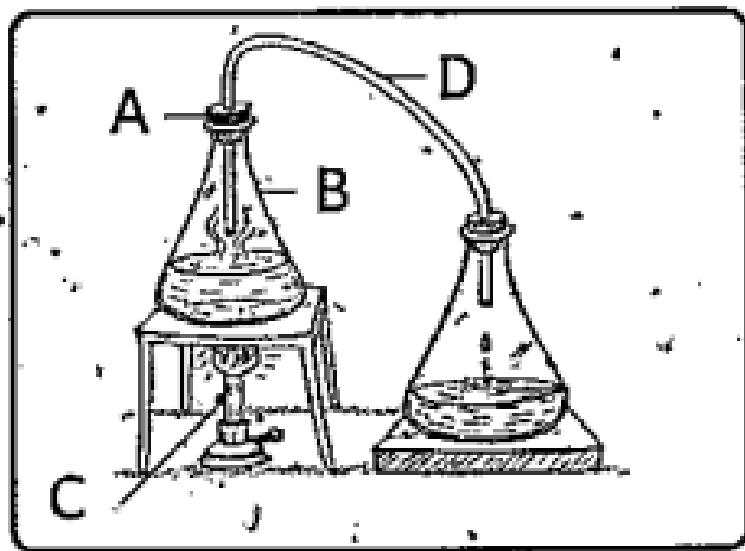
What is the experimental set up?



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101. Answer the following questions by observing the diagram.

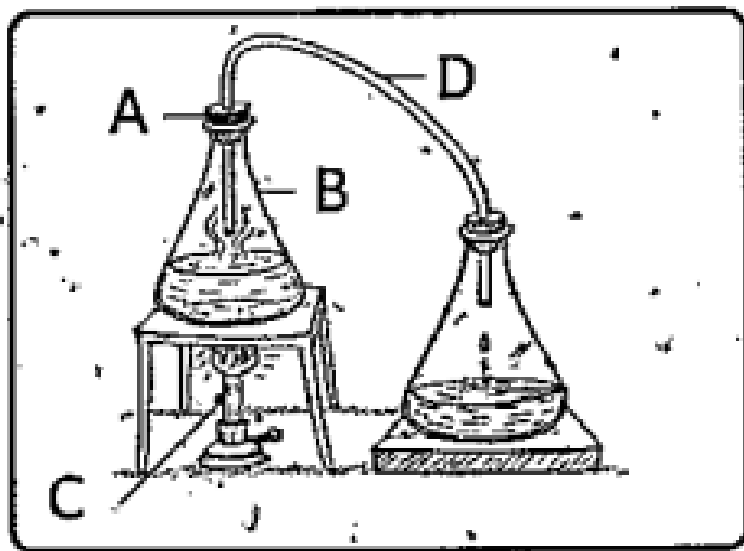
What is collected in the second conical flask?



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102. Answer the following questions by observing the diagram.

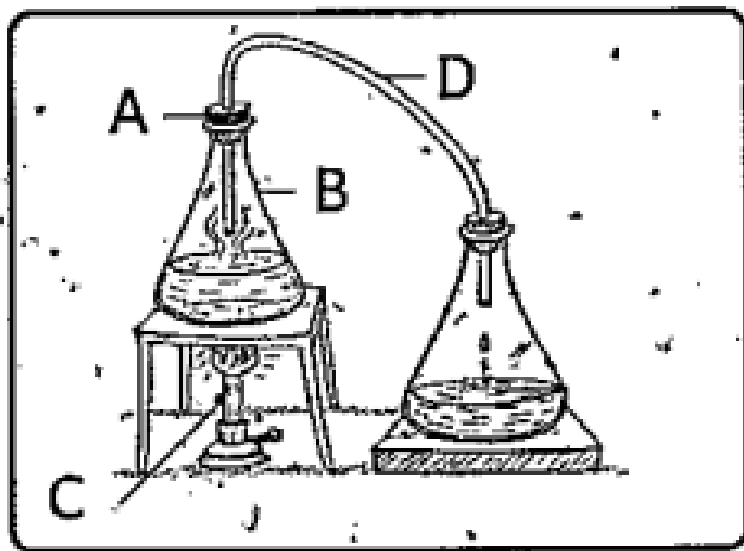
What is the use of delivery tube?



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103. Answer the following questions by observing the diagram.

What is the source of heat from the activity?



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104. What is sublimation? Give some daily life applications where you come across the process.



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105. Write at least two properties of solids, liquids and gases.



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106. What are soluble and insoluble substance, Give examples.



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107. Name any five objects which are made up of only one material.



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108. We sort materials based on their.....at normal temperature.

A. Shape

B. Size

C. State

D. Colour

Answer: C



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109. Which is an example of a liquid?

A. Kerosene

B. Wood

C. Smoke

D. Stone

Answer: A



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110. Which of the following is a solid?

A. Water

B. Kerosene

C. Smoke

D. Stone

Answer: D



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111. Match the following columns

Match the following.

Group - I

- 1) Solid
- 2) Liquid
- 3) Gas

Group - II

- a. Smoke
- b. Wood, bricks, plastic
- c. Water, oil, milk

A. 1-a,2-b,3-c

B. 1-c,2-b,3-a

C. 1-b,2-c,3-a

D. 1-a,2-c,3-b

Answer: C



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112. Match the following columns

Match the following.

Group - I

1) Cotton

2) Gas

3) Leather

4) Metal

Group - II

a. Shoes

b. Clothes

c. Utensils

d. Mirror

A. 1-a,2-b,3-c,4-d

B. 1-b,2-d,3-a,4-c

C. 1-d,2-c,3-b,4-a

D. 1-a,2-c,3-d,4-b

Answer: B



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113. The process in which a substance changes directly from solid to gaseous form and vice-versa is called.....

A. crystallization

B. sublimation

C. winnowing

D. distillation

Answer: B



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114. The process of separating mud and from water is called....



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115. Tea leaves are separated from tea by

A. hand picking

B. filtration

C. chromatography

D. All of these

Answer: B



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116. For separating larger and smaller substances in a mixture we use

A. Sieving

B. Crystallization

C. Decantation

D. Sedimentation

Answer: A



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117. Heavier and lighter substance are separated by.....method.



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118. In the sedimentation process soil particles settle down at the bottom called

A. clear liquid

B. sediment

C. filtrate

D. All of these

Answer: B



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119. Spoiled vegetables can be separated from fresh vegetables by

- A. winnowing
- B. filtration
- C. hand picking
- D. All of these

Answer: C



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120. Among the following, man-made mixture is.....

A. Soil

B. Sea water

C. Lemonade

D. Both A and B

Answer: C



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121. Among of the following natural mixture is.....

A. Soil

B. Lemonade

C. Apple juice

D. All of these

Answer: A



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122. Method used for separation of oranges from mangoes.

- A. Sieving
- B. filtration
- C. hand picking
- D. Winnowing

Answer: C



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123. Farmers separate husk and grains by.

A. crystallization

B. winnowing

C. filtration

D. All of these

Answer: B



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124. is used for filtration.

A. Filter paper

B. Sieve

C. Cloth

D. Both A and B

Answer: D



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125. ____ is used for separation of dissolved substance from a liquid.



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126. is the process of extracting salt from water.

A. Sedimentation

B. Evaporation

C. winnowing

D. Decantation

Answer: B



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127. Choose the substance available in three states of matter.

A. Cooking oil

B. Candle

C. Water

D. Both B and C

Answer: D



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128. If you throw a paper bowl into water.

A. it will sink

B. it will float

C. it will bounce box

D. Both A and B

Answer: B



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129. Choose the wrong statement.

- A. Lemon juice is soluble in water
- B. Salt is insoluble in water
- C. Sugar is soluble in water
- D. All of these

Answer: B



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130. Find the odd one out regarding solubility.

A. Sugar

B. Salt

C. Sand

D. Camphor

Answer: C



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131. Find out the wrong match

A. Mirror- Glass, Wood

B. Door- Wood, Paint

C. Towel- Metal, Rubber

D. Pot- Clay

Answer: C



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132. If crystallization is not done in nature, we can't obtain.....

- A. Grain from husk
- B. Sand from mud water
- C. Salt from sea water
- D. All of these

Answer: C



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133. Chromatography : Colour: :

Sedimentation:.....



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134. Choose the wrong statement.

A. Husk is separated from grain by winnowing

B. Flour is separated from red gram by crystallization

C. Stones are separated from rice by hand
picking

D. Salt is obtained by evaporation

Answer: B



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135. Find the one out regarding mixture of
substance

A. Concrete

B. Tea

C. Lemon juice

D. All are mixture

Answer: D



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136. From the experiment of burning a candle, choose the correct statement

A. Solid is converted into liquid and then
gas

B. We observe three states of matter

C. Solid cannot be converted

D. Both A and B

Answer: D



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137. Find the correct order of the experiment regarding chromatography

pour some water in a place

Take a whole stick of white chalk

Observe the colour pattern formed on chalk

Put an ink mark on the surface of chalk

Chalk is placed in water

A. b,d,a,e,c

B. a,e,c,b,d

C. d,c,e,b,a

D. c,e,b,a,d

Answer: A



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138. Which of the following material is not required in the experiment of distillation of water.

A. Conical flask

B. Filter paper

C. Burner

D. Delivery tube

Answer: B



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139. Choose the correct statement regarding the experiment of sublimation.

A. Mixture of camphor and powdered salt are taken in a china dish.

B. Burner is used for the purpose of heating

C. Cotton is used for the close the funnel.

D. All of the above

Answer: D



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140. Separation of sand from gravel is observed at.....

A. Kitchen

B. construction sites

C. Both A and B

D. laboratories

Answer: B



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141. Read the table and answer the following questions

Material	Objects
Leather	Shoes, bags, belts
Ceramic	Cups, plates, saucers
Rock	Idols, rollers, bricks

Belts are made using

A. Leather

B. Ceramic

C. Rock

D. Wood

Answer: A



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142. Read the table and answer the following questions

Material	Objects
Leather	Shoes, bags, belts
Ceramic	Cups, plates, saucers
Rock	Idols, rollers, bricks

What do we use to make plates?

- A. Ceramic
- B. Leather
- C. Rock
- D. Stone

Answer: A





143. Read the table and answer the following questions

Material	Objects
Leather	Shoes, bags, belts
Ceramic	Cups, plates, saucers
Rock	Idols, rollers, bricks

Idols are made using

- A. Rock
- B. Leather
- C. Both A and B
- D. Ceramic

Answer: A



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144. Read the table and answer the following questions

Material	Objects
Leather	Shoes, bags, belts
Ceramic	Cups, plates, saucers
Rock	Idols, rollers, bricks

Which of the following are made using ceramic?

A. Cups

B. Plates

C. Saucers

D. All of these

Answer: D



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145. Observe the given table and answer the following questions

Method of separation	Example
Sublimation	Camphor
Crystallisation	Salt from sea water
Winnowing	Husk from grain
Sieving	Husk from flour

What is the method of separation used to separate husk from grain?

- A. Sublimation
- B. Winnowing
- C. Crystallization
- D. Sieving

Answer: B



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146. Observe the given table and answer the following questions

Method of separation	Example
Sublimation	Camphor.
Crystallisation	Salt from sea water
Winnowing	Husk from grain
Sieving	Husk from flour

Salt from sea water is an example of.....

- A. Sieving
- B. Crystallization
- C. Sublimation
- D. Winnowing

Answer: B



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147. What is the woman doing in the picture?



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148. Choose the correct statement regarding the picture.



- A. The farmer is sweeping the floor
- B. The woman is pouring waste material

C. Separating lighter particles from heavier particles

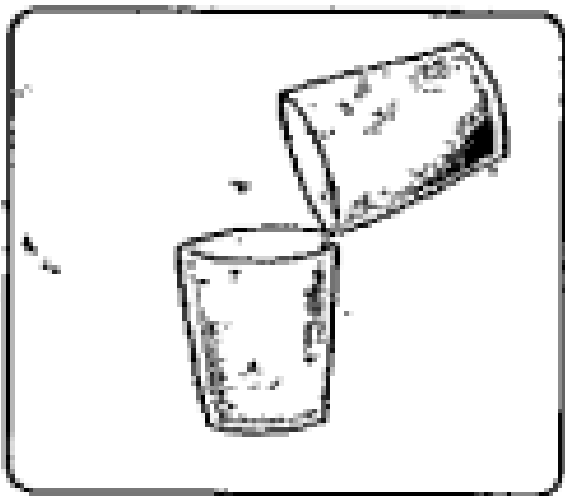
D. All of these

Answer: C



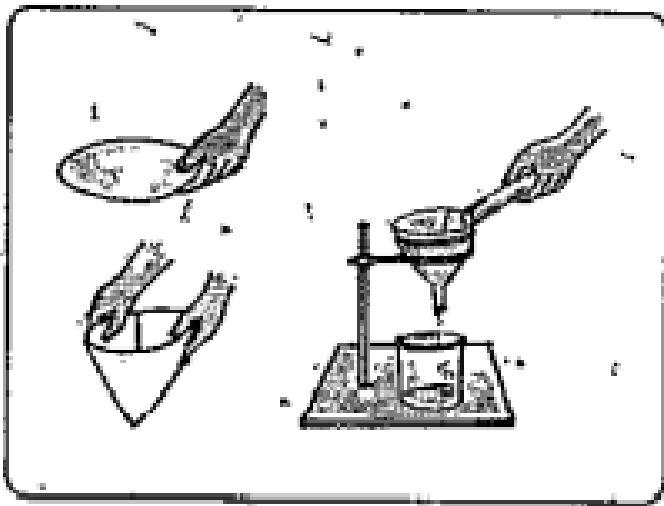
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149. Identify the process of separation in the picture.



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150. What is done by the apparatus shown in the figure?



A. Sedimentation

B. Decantation

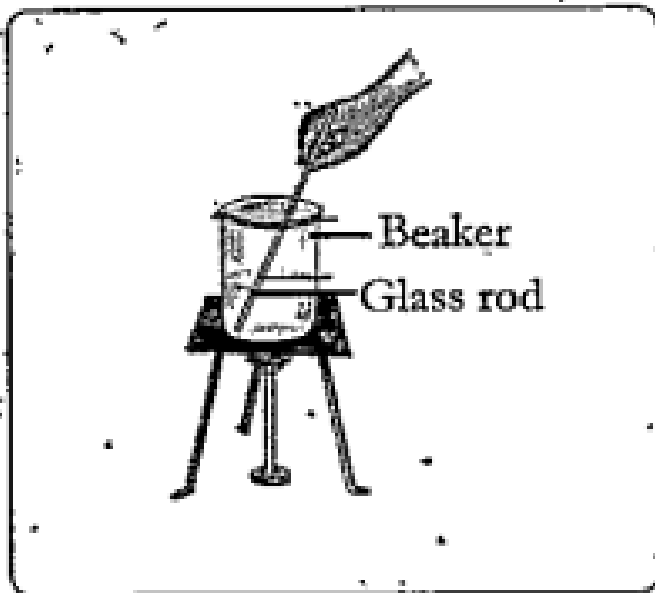
C. Filtration

D. Winnowing

Answer: C



151. What is the method of separation in the picture?



A. Filtration

B. Crystallization

C. Sublimation

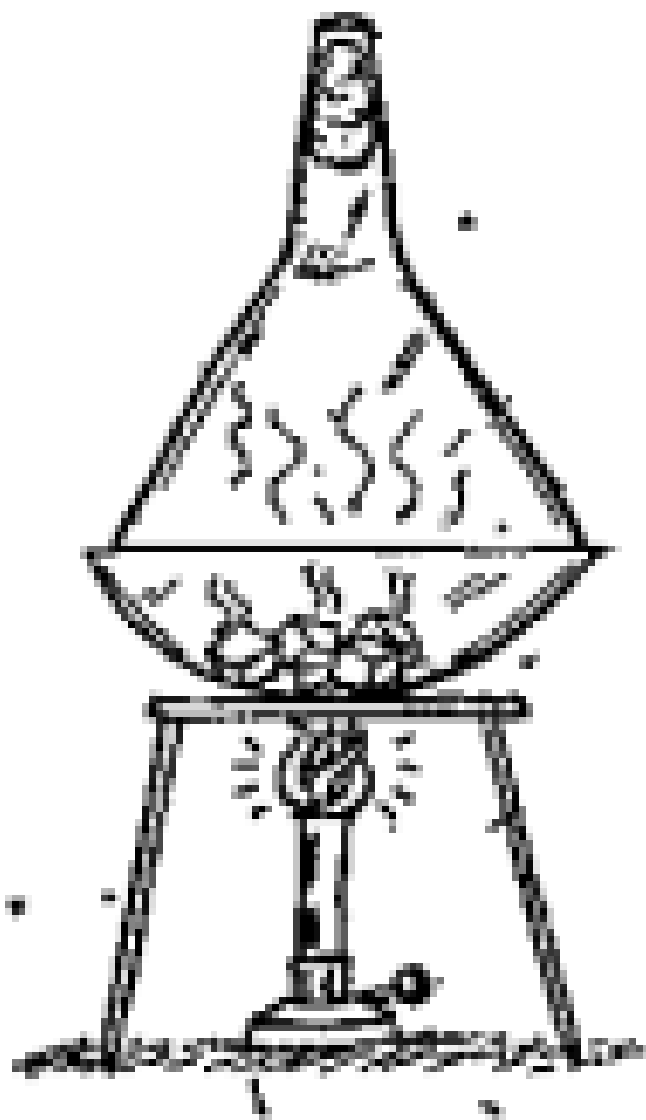
D. Winnowing

Answer: B



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152. From the given picture, on heating solid state converts to



A. liquid

B. gas

C. solid

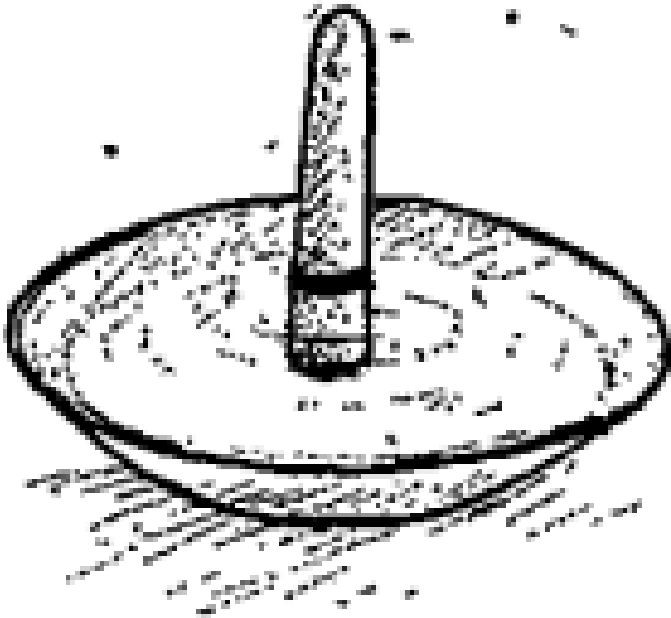
D. Both liquid and gas

Answer: B



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153. Why we put an ink mark on the chalk?



A. Just for fun

B. To play with chalk piece

C. To identify separation of colours

D. All of these

Answer: C



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154. You purchased 3 kg groundnut from shop and want to separation spoiled nuts from them. Choose the best method from the following

A. Winnowing

B. Hand picking

C. Keeping them under sunlight for few hours

D. Pouring them in a bucket of water

Answer: B



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155. Which of the following sinks in water?

i) Stone ii) Paper iii) Tomato iv) Egg

A. i,iv

B. i,iii

C. iv

D. I

Answer: A



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156. Identify the floating objects in water.

I) Kerosene ii) Oil iii)Ghee iv) Petrol

A. i,iii

B. ii,iii

C. i,ii,iii,iv

D. i,iv

Answer: C



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157. Which of the following does not change its shape with the container

A. Sand

B. Sugar

C. Milk

D. Brick

Answer: D



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158. Choose the odd one out.

A. Stones from rice

B. Rotten fruits from fresh fruits

C. Separating oranges and apples

D. Separate husk from grains

Answer: D



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159. Different types of separation techniques

help us

A. To get desirable quantities of material

B. To remove good varieties

C. To get undesirable material

D. To follow various techniques

Answer: A



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160. An iron nail sinks in water. While a large ship floats on the surface of water. Give reason.

- A. Material in one shape will sink and in other shape will float
- B. Because of change in colour
- C. All material will sink
- D. All material will float

Answer: A



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161. Concrete is a -

A. Mixture

B. Man-made mixture

C. Natural mixture

D. Both A and B

Answer: D



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