

# Core Natural Science

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### MCQ'S ON SEPRATION OF MIXTURE

1. A solid substance is dissolved in water. Which of the following methods is used for separating it?

- (a) Distillation
- (b) Evaporation
- (c) Filtration
- (d) Decantation

2. Iron is separated from the mixture by:

- (a) magnetic separation
- (b) sedimentation
- (c) winnowing
- (d) Sieving

3. The process of settling down of the particles of an insoluble solid in a liquid is called.

- (a) decantation
- (b) sedimentation
- (c) winnowing
- (d) Sieving

4. Air is a:

- (a) pure substance
- (b) heterogeneous mixture
- (c) the compound of oxygen and nitrogen
- (d) homogeneous mixture

5. Oil and water can be separated through

- (a) filter paper
- (b) distillation
- (c) evaporation
- (d) separating funnel

6. Which of the following is a heterogeneous mixture?

- (a) a salt solution
- (b) a salt-pepper mixture
- (c) air
- (d) a fizzy drink

7. Which of the following is a homogeneous mixture?

- (a) mist
- (b) a sand-water mixture
- (c) an oil-water mixture
- (d) a nitrogen-oxygen mixture

8. Tiny pieces of stones are usually separated from pulses before cooking by the method called

- (a) threshing
- (b) sieving

(c) hand picking

(d) winnowing

9. The process of changing vapour into its liquid is called

(a) condensation

(b) loading

(b) winnowing

(d) evaporation

**Multiple choice questions.**

1. (c) 2. (a) 3. (b) 4. (d) 5. (d)

6. (b) 7. (a) 8. (c) 9. (a)

**Fill in the blanks:**

1. Materials which contain two or more substances in any proportion are called — — — — —.

2. — — — — — mixtures are not uniform in appearance and composition.

3. Cereals like wheat and rice are sources of — — — — —.

4. The process in which a liquid change into vapour is called — — — — —.

5. — — — — — is a process of separating the component of substances from a liquid mixture by selecting evaporation and condensation.

**Fill in the blanks. (ANSWERS)**

1. Materials which contain two or more substances in any proportion are called mixtures.

2. Heterogeneous mixtures are not uniform in appearance and composition.

3. Cereals like wheat and rice are sources of carbohydrates.

4. The process in which a liquid change into vapour is called evaporation.

5. Distillation is a process of separating the component of substances from a liquid mixture by selecting evaporation and condensation.

### Very Short Answer Questions?

1. What is winnowing?
2. What is the saturated solution?
3. Name the process by which water is separated from rice and pulses after washing them.
4. Which method is usually used to separate small pieces of stones from pulses at home?
5. Define pure substances.
6. Which substance is used for loading the clay particles suspended in muddy water?

### **Very Short Answer Questions(Answer)**

1. The process of separating the wheat grain from the chaff is called winnowing.
2. A solution in which no more substance can be dissolved at a given temperature is called a saturated solution.
3. Sedimentation
4. Hand-picking
5. The materials that are made of only single kind of atoms or elements are called pure substances.
6. Sedimentation

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## **SET #02**

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### **Separation of Substances**

**Choose the correct option in the following questions:**

Question 1.

Butter is separated from milk by

- (a) sedimentation
- (b) filtration
- (c) churning
- (d) decantation

Answer

Answer: (c) churning

Explanation:

Butter is separated by churning.

Question 2.

Filtration is a method to separate the components of a

- (a) solution
- (b) mixture of a liquid and an insoluble substance
- (c) both (a) and (b)
- (d) pure substance

Answer

Answer: (b) mixture of a liquid and an insoluble substance

Explanation:

Components of solution cannot be separated by this method.

Question 3.

Threshing is done by

- (a) beating
- (b) bullocks
- (c) machines
- (d) all of these

Answer

Answer: (d) all of these

Explanation:

All the three methods can be used for threshing.

Question 4.

Which method is used to separate pebbles and stones from sand?

- (a) Handpicking
- (b) Winnowing
- (c) Sieving
- (d) Any of these

Answer

Answer: (c) Sieving

Explanation:

Handpicking will require more time while winnowing is not fit at all.

Question 5.

The components of a solution (say sugar in water) can be separated by

- (a) filtration
- (b) evaporation
- (c) sedimentation
- (d) decantation

Answer

Answer: (b) evaporation

Explanation:

By evaporation, the volatile component is evaporated which is then condensed.

Question 6.

Sand from water is separated by

- (a) sieving
- (b) evaporation
- (c) filtration

(d) sedimentation and decantation

Answer

Answer: (d) sedimentation and decantation

Explanation:

It can be done by evaporation and filtration also but sedimentation and decantation are easier ways.

Question 7.

The process of conversion of water vapours into liquid is called

- (a) condensation
- (b) decantation
- (c) sedimentation
- (d) evaporation

Answer

Answer: (a) condensation

Explanation:

Water vapours changing into liquid is called condensation.

Question 8.

The process of conversion of water into its vapours is called

- (a) evaporation
- (b) condensation
- (c) guttation
- (d) transpiration

Answer

Answer: (a) evaporation

Explanation:

The conversion of water into vapours is called evaporation.

Question 9.

A mixture of ammonium chloride and sand is separated by

- (a) evaporation
- (b) decantation
- (c) sublimation
- (d) filtration

Answer

Answer: (c) sublimation

Explanation:

Ammonium chloride is separated by sublimation process.

Question 10.

The property which forms the basis of sieving

- (a) difference in weight
- (b) difference in colour
- (c) difference in shape
- (d) difference in size

Answer

Answer: (d) difference in size

Explanation:

Sieving method is used for separating solid constituents of a mixture which differ in their size.

**Match the following items given in Column A with that in Column B:**

Column A    Column B

- (a) Handpicking    (i) Conversion of water vapours into liquids
- (b) Threshing(ii) Separating bran from flour
- (c) Winnowing    (iii) Separating larger size impurities
- (d) Sieving    (iv) Separating butter from milk
- (e) Sedimentation    (v) Conversion of water into Us vapours
- (f) Evaporation    (vi) Separating grains from its stalks
- (g) Condensation    (vii) Settling of heavier components at bottom
- (h) Churning (viii) Separation by wind or by blowing air

Answer

Answer:

Column A    Column B

- (a) Handpicking    (iii) Separating larger size impurities
- (b) Threshing(iv) Separating grains from its stalks
- (c) Winnowing    (viii) Separation by wind or by blowing air
- (d) Sieving    (ii) Separating bran from flour
- (e) Sedimentation    (vii) Settling of heavier components at bottom
- (f) Evaporation    (v) Conversion of water into its vapours
- (g) Condensation    (i) Conversion of water vapours into liquids
- (h) Churning (iv) Separating butter from milk

**Fill in the blanks with appropriate words:**

1. Peanuts are separated from a mixture of wheat and peanut by .....

Answer

Answer: handpicking

2. .... is used to separate husk from wheat.

Answer

Answer: Winnowing

3. Fine sand can be separated from larger particles by .....

Answer

Answer: sieving

4. Glass is a .....

Answer

Answer: mixture

5. Compounds have ..... melting points.

Answer

Answer: fixed

6. Milk has a ..... boiling point.

Answer

Answer: variable

7. Boiling point of pure water is ..... than that of impure water.

Answer

Answer: less

8. Mixture may be solid, liquid or .....

Answer

Answer: gas

9. Butter is a component of .....

Answer

Answer: butter milk

10. Sugarcane juice is a mixture of ....., water and many other substances.

Answer

Answer: sugar

11. Separation of components is done to obtain a ..... substance.

Answer

Answer: pure

12. Components retain their properties in a .....

Answer

Answer: mixture

State whether the statements given below are True or False:

1. Butter is separated from butter milk by churning.

Answer

Answer: True

2. Separation of components of a mixture is a useful process.

Answer

Answer: True

3. Ink loses its properties when mixed in water.

Answer

Answer: False

4. 'Sharbat' is a mixture of sugar and water.

Answer

Answer: True

5. Rocks are pure substances.

Answer

Answer: False

6. Milk is a mixture.

Answer

Answer: True

7. Common salt is a pure substance.

Answer

Answer: True

8. Mixture has properties different from its components.

Answer

Answer: False

9. Tap water and pond water are alike.

Answer

Answer: False

10. Elements are pure substances.

Answer

Answer: True

11. A pure substance has a fixed melting and boiling points.

Answer

Answer: True

12. Condensation method is used for separating substances which on heating change directly into vapour.

Answer

Answer: False

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