

परमाणु ऊर्जा शिक्षण संस्था, मुंबई
Atomic Energy Education Society
Session-2023-24

Class: VI

Subject: Science

WORKSHEET NO-3

Name of the Chapter: Separation of materials

Name of the Topic : Separation of materials

1.Choose the correct option from the following .

1x10=10

Q 1.Mixtures need to be separated because

- (a) to remove undesirable substances
- (b) to get desirable substances
- (c) to obtain highly pure substances
- (d) all of the above

Q 2. The method of separation used to separate stones from rice is

- (a) handpicking
- (b) threshing
- (c) winnowing
- (d) all of these

Q 3. Butter is separated from milk by

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

Q 4.The separation of grains from husk is done by the process of

- (a) handpicking
- (b) sieving
- (c) winnowing
- (d) threshing

Q 5. Threshing is done by

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

Q 6. Filtration is a method to separate the components of a

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

Q 7. A solid is dissolved in water. Which one of the following methods can be used to separate it?

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

Q 8. A mesh which is used to separate things on the basis of their difference in size

- (a) sieve
- (b) thresher
- (c) filter paper
- (d) none of these

Q 9. The process of conversion of water into vapour is called

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

Q 10. The process of separation of tea leaves by strainer is called

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

II. Fill in the blanks with suitable word/s.

1x10=10

1. is used to separate husk from wheat.
2. Fine sand can be separated from larger particles by
3. Separation of components is done to obtain a substance.
4. When a heavier component of a mixture settles after adding water to it, this process is called _____.
5. _____ is the opposite of evaporation.
6. Chalk powder can be separated from water by_____.
7. _____ is the essential condition for winnowing.
8. Common salt is obtained from sea water by
9. The method used to separate the components of different sizes in a mixture using a sieve is called
10. The solid left behind after filtration is called

III. Answer the following question in one sentence.

2x10=20

- Q1. List some of the materials that are used as filters.
- Q2. Define winnowing.
- Q3. What is a saturated?
- Q4. Why is it necessary to separate substances from mixtures?
- Q5. Define handpicking.
- Q6. What is done in threshing? How it can be done?
- Q7. How is sieving use to separate particles of a mixture? Give example.
- Q8. What happens when steam comes in contact with the metal plate cooled with ice?
- Q9. What is condensation?
- Q10. What is sedimentation?

IV. Answer the following questions in brief.

3x5=15

- Q 1. What is threshing? How is it done?
- Q2. How will you separate a mixture of oil and water? 2.
- Q3. **How is common salt obtained from sea?**

Q4. What is winnowing? Explain the process of winnowing.

Q5. Both Sarika and Mohan were asked to make salt solution. Sarika was given a teaspoonful of salt and half a glass of water whereas, Mohan was given twenty teaspoonful of salt and half a glass of water.

(a) How would they make salt solutions?

(b) Who would be able to prepare saturated solution?

V. Answer the following questions .

5x5=25

Q1.. Differentiate between sedimentation and decantation with a suitable example.

Q2. Compare and contrast the processes of sieving and filtration. Provide examples to illustrate each process.

Q3. Explain how the process of handpicking works for separating substances. Provide an example of its application.

Q4. Is it possible to separate sugar mixed with wheat flour? If yes, how will you do it?

Q5. What is filtration? Where is it used?

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