

Board – CBSE

Class –6

Topic- Separation of Substances

Q.1 Fill in The Blanks:

1. The process of deliberately mixing food materials with cheap, unwanted harmful things is called _____.
2. _____ method is used to separate insoluble solids from liquids.
3. _____ process is used to separate pebbles and stones from sand at construction sites.
4. In a solution of turmeric in water, _____ is solute.
5. The ability of a substance to get dissolved in a given liquid is known as its _____.

Q.2 Multiple-Choice Question:

1. Filtration is a process used to separate:

(A) solid-solid mixture
(B) liquid-liquid mixture
(C) suspended solid-liquid mixture
(D) liquid-liquid mixture

2. Which of the following process is used to remove sand from water?

(A) Sedimentation (B) Filtration
(C) evaporation (D) None of these

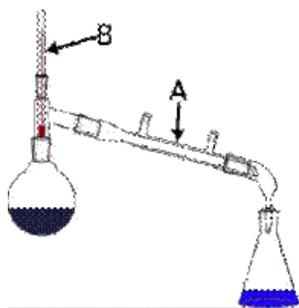
3. In which of the following process a mixture is rotated at high speed?

(A) Evaporation (B) Filtration
(C) Distillation (D) Centrifugation

4. The constituents of a mixture are present in:

(A) Fixed ratio (B) Can't say
(C) Variable ratio (D) none of these

5. A compound consists of:
- (A) Only one kind of atom
 - (B) Only one kind of element
 - (C) A mixture of elements and molecules
 - (D) Only one kind of molecules
6. In the distillation apparatus shown what are the parts labelled A and B?



- (A) A=funnel, B=thermometer
 - (B) A=thermometer, B=Funnel
 - (C) A=Liebig condenser, B=thermometer
 - (D) A=Liebig condenser, B=Flask
7. Mixtures of sand and water or sand and iron filings are:
- (A) Heterogenous mixtures (B) Homogenous mixtures
 - (C) Can't say

Q.3 What is separation?

Q.4 Why the separation of substances is necessary?

Q.5 What is the basis of separation of components of mixture?

Q.6 When do we use hand picking as the method of separation?

Q.7 Which type of separation is used in cashew nut factories?

Q.8 Define winnowing? What is the principle of using winnowing as method of separation?

Q.9 Where do we find sieving as the method of separation?

Q.10 You are given a mixture of sand, salt and iron filling. Suggest some methods for separating all the components of this mixture?

Q.11 Define filtration? Give 3 examples where filtration method is used.

Q.12 What is evaporation? Where do we use this method at home?

Q.13 What method is used to separate salt from sea water and how?

Q.14 In which cases handpicking is enough as a method of separation?

Q.15 One method of separation is not enough. Comment.

Q.16 Differentiate between a pure substance and a mixture.

Q.17 Is the separation of two immiscible liquids using separating funnel same as decantation?

Q.18 What do you use to remove discarded tea leaves from tea?

Q.19 Match the column

Column I	Column II
Condensation	The process of separating heavier and lighter components of a mixture by wind or by blowing air.
Filtration	The process in which stalks are beaten to free the grain seeds
Threshing	The method of separating tea leaves from prepared tea through a strainer.
Winnowing	The process of separating components of a mixture which are different in size
Sieving	The process of conversion of water vapour into its liquid form

Q. 20 Which of these is false

- A mixture of oil and water can be separated by filtration
- A mixture of iron filings and rice flour can be separated by magnet

