

CLASS VI
G. SCIENCE
SUMMATIVE ASSESSMENT NO. 1
SEPARATION OF SUBSTANCES
Assignment No. 4

- Q.1 Multiple choice questions (Choose the correct option)
- (A) Most of the substances we see around us are
(a) Pure Elements (b) Pure Compounds (c) Mixtures
- (B) A solution of salt in water is a?
(a) Compound (b) Homogeneous Mixture (c) Heterogeneous Mixture (d) Element
- (C) The property used in separating a mixture of two solids by winnowing is
(a) difference in color (b) difference in size (c) difference in weight (d) Attraction by magnet
- (D) Which method is used to obtain pure liquid from a solution?
(a) Distillation (b) Condensation (c) Filtration (d) Loading
- (E) Which of the following can dissolve in water?
(a) Only Solids (b) Only solids and liquids (c) Solids, liquids & gases (d) only liquids
- Q.2 What is separation?
- Q.3 Why the separation of substances is necessary?
- Q.4 What is the basis of separation of components of mixture?
- Q.5 When do we use hand picking as the method of separation?
- Q.6 What is threshing? How is it done?
- Q.7 Define winnowing? What is the principle of using winnowing as method of separation?
- Q.8 Where do we find sieving as the method of separation?
- Q.9 You are given a mixture of sand, salt and iron filling. Suggest some methods for separating all the components of this mixture?
- Q.10 Define filtration? Give 3 examples where filtration method is used.
- Q.11 What is evaporation? Where do we use this method at home?
- Q.12 What method is used to separate salt from sea water and how?
- Q.13 In which cases handpicking is enough as a method of separation?
- Q.14 One method of separation is not enough. Comment.
- Q.15 Differentiate between a pure substance and a mixture.
- Q.16 Is the separation of two immiscible liquids using separating funnel same as decantation?
- Q.17 What do you use to remove discarded tea leaves from tea?

- Q.18 What impurities are present when you buy wheat, rice or pulses from the market?
- Q.19 What is the process called when stem of plants (stalks) are beaten to separate grains?
- Q.20 What process is used to separate light solid particles from heavier solid particles?
- Q.21 What will settle down when mud and rice are added to water?
- Q.22 What is the process called when strainer or filter funnel is used?
- Q.23 What is a solution called which contains the maximum amount of dissolved solute?
- Q.24 How do you separate a light liquid from a heavier liquid?

HOTS QUESTIONS

- Q.1 You are given a sample of water. How will you find out whether it is pure or not?
- Q.2 A bottle contains either salt or chalk. How will you find out what it has, without tasting it.
- Q.3 Sea water has salt dissolved in it. You know that pure water can be obtained from sea water by distillation. However, this method is not used to get drinking water from sea water. What do you think is the reason?