

Worksheet

Very short questions

1) What is the main purpose for the separation of mixtures?

Ans) Separation of substances are needed to get the pure substances back, as pure substances are used in making chemicals, medicines etc. Their separation plays important role in making those matters.

2) Define handpicking.

Ans) The method used to separate solid-solid mixtures by hand is known as handpicking.

3) Define winnowing.

Ans) A process where wind is used to separate the chaff from grain.

4) Define magnetic separation.

Ans) A process where magnet is used as means to separate non-metals and metals.

5) Define Sublimation.

Ans) A process where solid directly changes into vapour state is called sublimation.

6) Residue.

7) Distillate

8) Decantation

9) Distillation

1) b) Distillation

2) d) Fractional distillation

3) a) Tap water

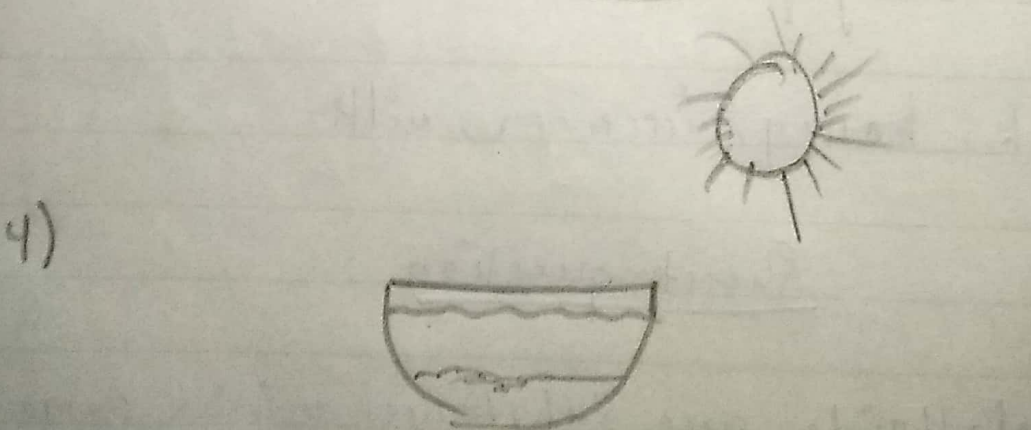
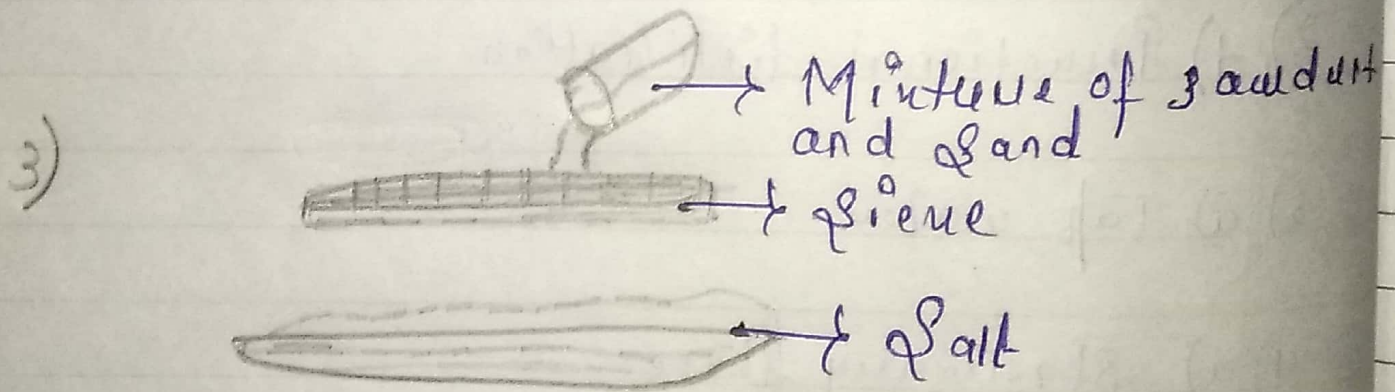
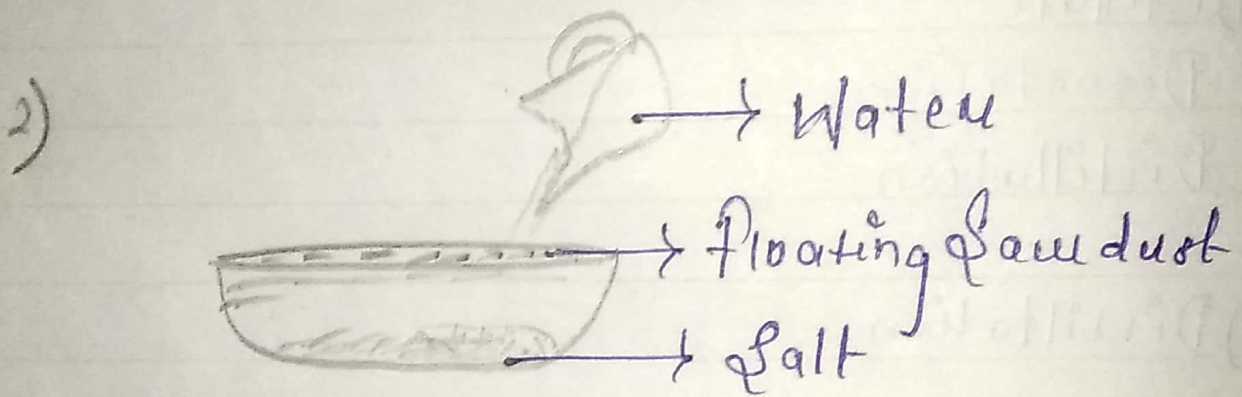
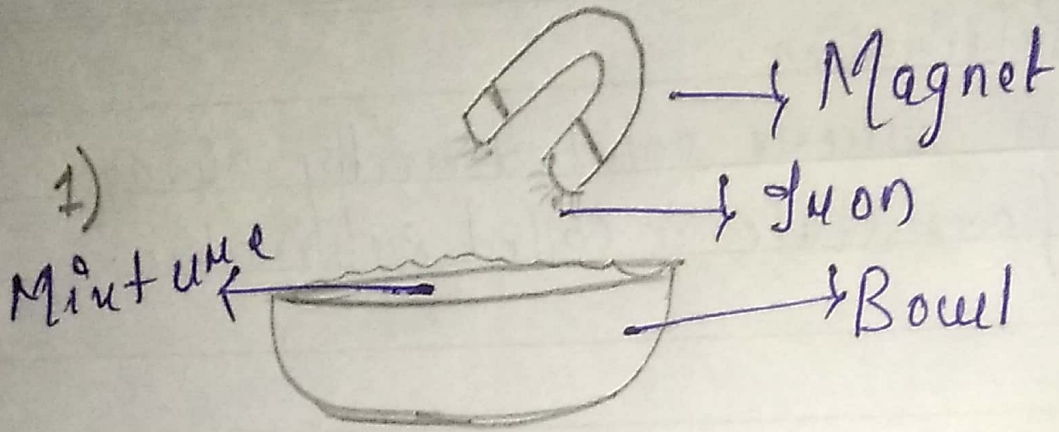
4) a) Stationary phase

5) a) Ink, honey, ice cream, milk

Short question

1) a) Metalloids are substances which some properties of metal and non-metals too.

b) Noble gases are gases which don't



react with other gases.

- 2) a) Hemoglobin - ~~metal~~ Iron
b) Chalk - ~~Potassium~~ Calcium

3) Compounds :-

∴ Have two or more elements.

∴ Can be broken down into simpler substances.

4) To separate salt, sawdust and iron, use a magnet to separate the iron. Then add water to dissolve the salt and float the sawdust. Skim off with a sieve or filter the solution to separate the sawdust. The water will evaporate, leaving the salt behind.

- 5)
- Crystallization is a process that separates a pure solid in the form of crystals from a solution.
 - It is better than evaporation because during evaporation some solids decompose like sugar may get charred. But in crystallization crystals are obtained.
 - Ex- The salt is obtained from sea by this method.