

Answer the following.

1. Explain how can we separate a mixture of iron fillings and sulphur powder.

Ans - We can separate iron fillings and sulphur powder by electrical and magnetic separation.

2. What is filtration? Explain by any activity.

Ans Filtration is the process of separating suspended solid matter from a liquid, by causing the latter to pass through the pores of the membrane called a filter.

3. Why is it necessary to separate the components of a mixture?

Ans - We need to separate the components of mixture to separate harmful or non-harmful substances that may be mixed with it. And to separate useful components if we need to use them separately.

4. How can we obtain pure water from sea water?

Ans- We can obtain pure water from a saltwater mixture by the process of distillation. ∴

~~(i)~~ The salt water mixture is taken in a distillation flask and ~~the~~ heated subsequently. On heating, water vapours are formed that rise up and come through the side tube B. It is then passed through condenser C. Cold water from tap is circulated in the outer tube of condenser, so ~~the~~ that the hot vapours are cooled. The vapours condense and are collected in another beaker. This pure water is called distilled water.