

## Pure substances and mixture, Separation of Mixture

Marks: 30

Time: 45 mins

### 1. Fill in the blanks

1×11=11

- Mixture is an \_\_\_\_\_ substance.
- Mixture of Charcoal and water is an example of \_\_\_\_\_ mixture.
- Ice cream is an example of \_\_\_\_\_ mixture.
- The process of pouring put the clear liquid without disturbing the sediment is called \_\_\_\_\_.
- Space Craft is made by \_\_\_\_\_ which is a mixture of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
- \_\_\_\_\_ method is used of getting a pure liquid from a solution by evaporating and then condensing.
- In the mixture of Sugar and Water, Water is \_\_\_\_\_.
- \_\_\_\_\_ method of separation can be used when the quantity of mixture is small and the substance to be separated from a small portion of mixture.
- To separate a mixture which contains different size of components, we used \_\_\_\_\_ method.
- To separate ammonium chloride from common salt we use \_\_\_\_\_ method.
- Bronze is made by \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.

### 2. Answer the questions

1×11=11

- Give the example of 5 substances which are commonly pure but actually are homogeneous mixture.
- What is Crystallisation?
- What is Alloy? Give Example.
- What are Sediment and supernatant Liquid?
- In the mixture of Salt and Water determine the solvent and solute.
- Select Homogeneous and heterogeneous mixture from the following:  
Salt Solution, Petrol and Water, Sand and Charcoal, Alcohol and water, Air dissolved in the water, sea water, Mist, Fruit Juices, brass.
- What is Winnowing?
- What is Filtration?
- What is Mixture? Give example.
- What is Magnetic Separation?
- What are sediment and supernatant liquid.

### 3. Answer the following in details

2×4=8

- Write the characteristics of Mixture.
- Write 5 differences between Compound and Mixture.
- Why water is a compound and air is a mixture.
- What is called Separation, and why the separation of components of Mixture is necessary?