Class:8

Chemistry Elements, Compounds and Mixtures

Synopsis:

- Matter can be classified into pure substances and impure substances (mixtures).
- Pure substances include elements and compounds.
- An element is a pure substance made up of only one kind of atoms and cannot be broken down into simpler substances.
- Elements can be classified into metals, nonmetals, metalloids and noble gases.
- A compound is a pure substance made up of two or more different elements combined chemically in a fixed proportion.
- A mixture is an impure substance made up of two or more elements or compounds mechanically mixed in any proportion.
- Mixtures may be homogeneous as well as heterogeneous.
- Homogeneous mixtures have uniform chemical composition where as heterogeneous mixtures do not have.
- The components of mixtures can be separated by various methods like handpicking, magnetic separation, gravity separation, sublimation, solvent extraction, filtration, distillation, evaporation, fractional distillation etc.

Worksheet

- Give one word for the following:
- 1. Substances combined chemically.
- 2. A metal which is a poor conductor of electricity.
- 3. A soft metal which can be cut with a knife.
- 4. Non metal which is liquid at room temperature.

5. _____ and ____ are sublimable substances.

5. A metal which is neither malleable nor ductile.

II. Fill	in the blanks:
1.	are sonorous.
2.	and are liquid metals.
3.	The solid left behind on the filter paper is known as
4.	is a non metal that is a good conductor of electricity

- III. Name the method of separating the following mixtures:
 - 1. Chalk and water -
 - 2. Ammonium chloride and sodium chloride -
 - 3. Iron filings and copper turnings -
 - 4. Sand and sawdust -
 - 5. Benzene and water -
- IV. Name the solvent of the following substances: Sulphur, rubber, chlorophyll, glue, rust.
- V. Complete the exercises at the end of the chapter: Page 55, 56 A, B, C, D, E