CHEMISTRY

BOOKS - ICSE

ELEMENTS , COMPOUNDS AND MIXTURES

Check Your Progress Fill In The Blanks

1. Elements are represented by ____

Watch Video Solution

2. The symbol of sodium is _____

 Watch Video Solution

3. The elements present in common salt are ____ and _____

 Watch Video Solution

4. A _____ is a substance made up of two or more elements.

Watch Video Solution

5. The properties of a compound are different from those of its constituent _____

Watch Video Solution

Check Your Progress Answer These Questions

1. Name the processes you would use to separate a mixture of calcium carbonate and common salt.

Watch Video Solution

2. Name the process by which sand is separated from its mixture in water.

Watch Video Solution

3. Name the process used to separate a mixture of two miscible liquids.

Watch Video Solution

4. Oil and water can be separated by using a separating funnel. What differences in their properties make this possible?

Watch Video Solution

Exercise Tick The Most Appropriate Answer

1. What is the symbol for Iron $\rightarrow$ .....

A. I

B. Fe

C. In

D. Na

Answer:

Watch Video Solution

2. Which of the following is a homogeneous mixture?

A. brass

B. muddy water

C. milk

D. chalk powder in water

Answer:

 Watch Video Solution

3. What is the settling down of the insoluble heavy solid particles in a solid-liquid mixture called?

A. decantation

B. sieving

C. sedimentation

D. winnowing

Answer:

 Watch Video Solution

4. Which process can be used to obtain common salt from sea water?

A. evaporation

B. sublimation

C. sedimentation

D. filtration

Answer:

Watch Video Solution

5. Which of the following is used to obtain pure copper sulphate in the form of crystals from its saturated solution?

A. evaporation

B. fractional distillation

C. distillation

D. crystallization

Answer:

Watch Video Solution

6. Which of the following processes works on the basis of the difference in the boiling points of liquids?

A. sedimentation

B. filtration

C. decantation

D. fractional distillation

Answer:

Watch Video Solution

7. Which of the following is used to separate oil from water?

A. evaporation

B. filtration

C. separating funnel

D. distillation

Answer:

 Watch Video Solution

8. Which of the following is used to separate complex mixtures like coloured dyes from ink?

A. evaporation

B. chromatography

C. separating funnel

D. distillation

Answer:

Watch Video Solution

Exercise Fill In The Blanks

1. The _____ of an element is the abbreviation of its full name.

Watch Video Solution

2. Natrium is the Latin name of _____

Watch Video Solution

3. A _____ is always made up of different elements combined in a fixed ratio by mass.

Watch Video Solution

4. The number of atoms present in one molecule of an element is called its_____

Watch Video Solution

5. The insoluble solid left behind on the filter paper during filtration is called _____

Watch Video Solution

6. Miscible liquids are separated by the process of ____ distillation.

Watch Video Solution

7. A separating funnel is used to separate two _____ liquids.

Watch Video Solution

Exercise Write True Or False Correct The False Statements

1. The IUPAC approves the names and symbols of new elements.

Watch Video Solution

2. A compound is made up of one element.

Watch Video Solution

3. The properties of a compound are different from those of its constituent elements.

Watch Video Solution

4. A mixture has a fixed melting or boiling point.

Watch Video Solution

5. The constituents of a mixture can be separated by simple physical means.

Watch Video Solution

6. Give the principle of separation in fractional distillation.

Watch Video Solution

7. Miscible liquids are separated by using a separating funnel.

Watch Video Solution

Exercise Match The Columns

1. Match the columns

1. Separating kerosene from water	a. fractional distillation
2. Separating alcohol from water	b. evaporation
3. Separating chalk powder from water	c. separating funnel
4. Separating camphor from common salt	d. magnetic separation
5. Separating common salt from sea water	e. filtration
	f. sublimation

Watch Video Solution

Exercise Answer The Following In Short

1. What is a compound?

Watch Video Solution

2. What is an alloy?

Watch Video Solution

3. Name the methods of separation of the components of solid-solid mixtures.

Watch Video Solution

4. What is sublimation?

Watch Video Solution

5. What is loading?

Watch Video Solution

6. Differentiate between residue and filtrate.

Watch Video Solution

7. Distillation and fractional distillation

Watch Video Solution

Exercise Answer The Following In Detail

1. State three characteristics of a compound.

Watch Video Solution

2. Differentiate between elements and compounds

Watch Video Solution

3. Differentiate between suspension and emulsion with the help of examples.

Watch Video Solution

4. State the characteristics of mixtures.

Watch Video Solution

5. Give the principle of separation in fractional distillation.

Watch Video Solution

Think And Answer

1. Air and tap water are mixtures. Explain.

Watch Video Solution

2. Is Oil in water is a heterogeneous mixture?

Watch Video Solution

3. Alum increases the rate of sedimentation. Why?

Watch Video Solution