

## Chapter 3: Elements, Compounds and Mixtures

### Worksheet 1

**1. Write T for true and F for false statement.**

- (i) Xenon is a noble gas.
- (ii) The symbol of sodium is 'So'.
- (iii)  $H_2$  represents a molecule of hydrogen.
- (iv) Mixtures are always homogeneous.
- (v) Two similar oxygen atoms combine to form a molecule of oxygen.

**2. Give symbol for the following.**

- (i) Iodine
- (ii) Gold
- (iii) Helium
- (iv) Nitrogen
- (v) Potassium

**3. Give one example each of the following.**

- (i) Element
- (ii) Compound
- (iii) Mixture
- (iv) Metalloid
- (v) Noble gas

**4. Answer these questions.**

- (i) Which kind of matter is made up of only one type of atoms or molecules?
- (ii) What are the elements showing the properties of both metals and nonmetals called?
- (iii) Define noble gases.
- (iv) Which compound is used as a kitchen-ingredient?
- (v) What is a mixture of calcium oxide, water and sand called?

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### Worksheet 2

#### 1. Fill in the blanks.

- (i) Silicon is a \_\_\_\_\_ .
- (ii) The symbol of phosphorus is \_\_\_\_\_ .
- (iii)  $2\text{N}_2$  represents \_\_\_\_\_ molecules of nitrogen.
- (iv) A molecule of water is formed by the combination of \_\_\_\_\_ hydrogen atoms and \_\_\_\_\_ oxygen atom.
- (v) When similar kinds of atoms combine, they form a \_\_\_\_\_ of an element.

#### 2. Give one word for the following.

- (i) This cannot be broken down into simpler substances.
- (ii) This is formed by combining two or more elements.
- (iii) This is also called common salt and is mostly used in cooking.
- (iv) These are impure substances.
- (v) This method is used to separate a large number of components present in a mixture.

#### 3. Match the columns.

Column A	Column B
(i) Arsenic	(a) Noble gas
(ii) Krypton	(b) Mixture
(iii) Copper	(c) Nonmetal
(iv) Oxygen	(d) Metalloid
(v) Air	(e) Metal

#### 4. Answer the following questions.

- (i) Name the elements which do not react with other elements or compounds.
- (ii) What is the short representation of an element called?
- (iii) What is the process of converting water into water vapour called?
- (iv) Write one example of liquid-liquid mixture.
- (v) Does naphthalene show the process of sublimation?