

## Chapter 2: Elements and Compounds

### Worksheet 1

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

- (i)  $H_2$  represents two molecules of hydrogen.
- (ii) Helium (He) is a monoatomic molecule.
- (iii) Iron sulphide is made up of iron and sulphur.
- (iv) The constituent elements of a compound cannot be separated by chemical methods.
- (v) A molecule of sulphur is polyatomic.

#### 2. Fill in the blanks.

- (i) The smallest particle of a compound which can exist independently is called a \_\_\_\_\_
- (ii) The Latin name of gold is \_\_\_\_\_ .
- (iii) The Latin name of silver is \_\_\_\_\_ .
- (iv) Carbon and \_\_\_\_\_ are present in carbon dioxide.
- (v) \_\_\_\_\_ is formed by combination of hydrogen and oxygen in the fixed ratio 1 : 8 by mass.

#### 3. Name the following.

- (i) These particles do not carry any charges.
- (ii) The only nonmetal which is liquid at room temperature.
- (iii) The only metal which is liquid at room temperature.
- (iv) The substance that cannot be broken down into simpler substances.
- (v) This form of carbon is a good conductor of electricity.

#### 4. Answer these questions.

- (i) Give two examples of diatomic molecule.
- (ii) What does  $2O_2$  represent?
- (iii) What happens when magnesium is burnt in the presence of air?
- (iv) Write two examples of triatomic molecule.
- (v) Name the elements present in  $NH_4Cl$ .

## Chapter 2: Elements and Compounds

### Worksheet 2

#### 1. Fill in the blanks.

- (i) \_\_\_\_\_ substances comprise elements and compounds.
- (ii) Water is a compound of \_\_\_\_\_ and \_\_\_\_\_.
- (iii) Iron is a metal, whereas sulphur is a \_\_\_\_\_.
- (iv) The symbol of \_\_\_\_\_ is Cr.
- (v) The latin name of tungsten is \_\_\_\_\_.

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

- (i) A pure substance having uniform composition and definite properties.
- (ii) These elements have common properties of metals and nonmetals.
- (iii) This chemical method is used to separate water into its constituent elements.
- (iv) Mn is the symbol of this element.
- (v) This gas is obtained by combining coal with oxygen.

#### 3. Answer these questions.

- (i) Write the symbols of mercury and chlorine.
- (ii) List the constituent elements of sulphur dioxide.
- (iii) Define molecules.
- (iv) Write the chemical formula of methane.
- (v) Define tetraatomic molecule with one example.

#### 4. Write the chemical formula of the following compounds.

- (i) Ammonia
- (ii) Carbon dioxide
- (iii) Sugar
- (iv) Ammonium chloride