## **Chapter 3: Elements, Compounds and Mixtures**

### **Worksheet 1**

1.	Fill	in	the	b]	lan]	ks

(i)	Matter can be classified into pure and substances.
(ii)	Elements can be divided into metals, nonmetals, noble gases and
(iii)	colour of sulphur is visible in the mixture of iron and sulphur.
(iv)	method is used to separate the mixture of immiscible liquids.
(v)	Ammonium chloride and sodium chloride are separated by

#### 2. Match the columns.

#### Column A

#### Column B

(i) Chromatography
(ii) Magnetic separation
(iii) Sublimation
(iv) Evaporation
(v) Filtration
(a) Sand and water
(b) Sugar and water
(c) Iron and sulphur
(d) Components of ink
(e) Iodine and sand

## 3. Name the following.

- (i) The material which is made up of only one kind of atoms or molecules having definite composition and properties.
- (ii) The number of atoms present in a molecule.
- (iii) This mixture has uniform composition throughout.
- (iv) This mixture does not have uniform composition throughout.
- (v) These methods are used to separate heavy insoluble solid components from liquid components present in a mixture.

# 4. Answer the following questions.

- (i) What does the atomicity of O<sub>2</sub> mean?
- (ii) Give one example of heterogeneous mixture.
- (iii) Name the method used to separate soluble nonvolatile solid component from a liquid component.
- (iv) Which method is used to separate a mixture of a large number of volatile miscible liquids?
- (v) Write one example of solid-solid mixture.

## **Chapter 3: Elements, Compounds and Mixtures**

### **Worksheet 2**

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

- (i) Iron and tap water are pure substances.
- (ii) The atomicity of H<sub>2</sub>O is 3.
- (iii) Water can be separated into hydrogen and oxygen by passing an electricity.
- (iv) Compounds are heterogeneous substances.
- (v) The constituents of homogeneous mixtures cannot be separated into its constituents by physical methods.

## 2. Name the methods used to separate the constituents of following mixtures:

A mixture of sand, rice and dal; sand and water; salt from salt solution; sodium chloride and calcium carbonate; oil and water; alcohol and water; iron, sulphur and sugar

3.	Fil1	in	the	h	lanks.
J.	TIII	TIL	uic	U	iaiins.

(i)	About elements are known at present.
(ii)	Calcium carbonate is a
(iii)	Air is a
(iv)	method can be used to separate insoluble solid components from liquid
	components.
(v)	can be separated into its constituents by simple physical methods.

## 4. Answer the following questions.

- (i) How many radioactive elements are known?
- (ii) Are alloys homogeneous mixtures?
- (iii) Define homogeneous mixture.
- (iv) Give one example of gas-gas mixture.
- (v) Which method is used to separate mixture of sand and iron particles?