

Exercise - 1

1 Classify the following substances

into elements and compounds.

Ans. Mercury, sulphur, sugar, water,

sand, gold, carbon, oxygen, chalk,

iron, marble, baking soda.

Ans > Elements = oxygen, carbon, gold

iron sulphur

Compounds = water, marble, sugar

alcohol is an alcohol & soda

Mercury

2. Give the symbols of: carbon, calcium

copper, chlorine, cobalt, oxygen.

Ans C, Ca, Co, Cl, Ag, Cu.

3. Define a pure substance. Name the

types of pure substances you know.

Ans > A substance of a definite

composition which has constant

properties throughout is called

a pure substance. ex - water, gold,

iron, copper and etc.

4. Define:

a) Elements

Ans > An element is defined as a pure

substance and made up of only one

kind of atoms that cannot be

converted into any thing simpler



than itself by any physical or chemical process.

b) Compounds

Ans \rightarrow Compounds are pure substances

formed by the chemical

combination of two or more elements

in a definite proportion by mass.

B. Give two examples for each of

the following:

a) Metals

Ans \rightarrow Fe, Si, Au

b) Non-metals

Ans \rightarrow O₂, S, C, N

① Metals

Ans → boron, silicon

② Noble gases

Ans → neon, argon

6. Water is formed when two

elements hydrogen and oxygen

combine ⁱⁿ chemically by a ratio

of 1:8 by mass. From where

source the water is taken

and tested, the ratio of

hydrogen and oxygen is how

the same. It will always have

a fixed formula H_2O .

7. POINTS

METAL

NON-METAL

1. Boiling point

High

Low

2. Melting point

High

Low

3. Conductivity

Good conductor

Bad conductor

4. Density

High

Low

5. Malleable & ductile

Strong

Weak substance

