

# WORKSHEET REVISION-1

LEVEL-7

SUBJECT: CHEMISTRY

TOPIC: REACTION OF METALS

Fill up the blanks:

1. Metals react with sulphur to form compound are called as  sulphides .
2. Gold and silver are found in the rocks as  pure metals .
3. Obtaining a metal from its ore is called the  extraction of metal .
4. Compounds of metals found in nature are called  minerals .
5.  Recycling  of scrap metals will help to save valuable resources.

Define the following:

1.  Corrosion  : Corrosion is the deterioration of metals by interaction with their environment such as water, air or any acid.
2.  Unreactive metals : Metals which don't react with air, water or any acid.
3.  Ores : Metals are found in the rocks as compounds called the ores.

Name the following:

1. Bauxite is an example of.

Ans: **Aluminium ore.**

2. The most abundant metal in the earth's crust.

Ans: **Aluminium.**

3. Name the process by which oxygen is removed from the iron ore.

Ans: **Smelting.**

4. Aluminium is extracted by a method called.

Ans: **Electrolysis**

### **Question and Answers:**

#### **1. Write four properties of metals:**

Ans : The properties of metals are:

- a. Metals are dense.
- b. Metals are malleable and ductile.
- c. They conduct heat and electricity.
- d. They have high melting point.

#### **2. Describe how iron is extracted from hematite.**

Ans: a) Extracting of iron is done by a process called smelting

i) Iron oxide is first separated from impurities, from the iron ore called as hematite.

ii) Then put iron oxide into a blast furnace along with carbon mixture is strongly heated.

iii) Oxygen is removed from the iron oxide leaving pure iron. This process is known as smelting.

#### **3. Explain how sacrificial protection works.**

Ans: Reactive metals such as magnesium are coated on iron or steel to protect them from rusting. Magnesium is a more reactive compound than iron and it reacts instead of iron and protects iron.