

J AND K POLICE PUBLIC SCHOOL ,MIRAN SAHIB JAMMU
ASSIGNMENT- 1 (2020-21)

CLASS – 8TH

SUBJECT- SCIENCE

MARKS: 20

Teacher In charge – Ms. Sarita

Important points

Everything around us is categorized into either metals or non-metals. Hence, it is important to know what non-metals and metals are and how to distinguish them. In this chapter we have discussed the various physical and chemical properties of metals and non-metals. To help you with it, here we list a few physical properties of metals and non-metals.

Physical Properties

Physical Properties of Nonmetals

- Occur as solids, liquids, and gases at room temperature
- Brittle
- Non-malleable
- Non-ductile
- Non-sonorous
- Bad conductors of heat and electricity

Physical Properties of Metals

- Hard and have a high tensile strength
- Solids at room temperature, except mercury, which is liquid at room temperature.
- Sonorous
- Good conductors of heat and electricity
- Malleable, i.e., can be beaten into thin sheets
- Ductile, i.e., can be drawn into thin wires
- Lustrous

Q1. Define the following terms

3m

Sonorous, malleability, conductor

Q2. Fill in the blanks;

3m

- a) Metals like potassium and sodium react vigorously with oxygen and catch fire if kept in open. Hence they are stored in ----- to prevent burning.
- b) A more reactive metal displaces a.....reactive metal from its salt solution.

- c) The presence of andare necessary for iron to rust.
- d) is a metal in liquid state.
- e)metal can be cut with knife.
- f) Metals react with oxygen to form..... oxides and non- metals react with oxygen to produce oxides

Q3. Short answer questions;

1. Give reasons for the following

6m

- a) Bells used in temples are made of metals and not wood.
 - b) Gold and silver are used for making jewellery
2. Write down first ten elements with their symbols.

Q4. Long answer questions:

8m

- a) Write the uses of metals and non-metals.
- b) Explain the chemical properties of metals and non-metals.