



BAL BHARATI PUBLIC SCHOOL, PITAMPURA, DELHI-110034

CLASS-8 Term I

Metals & Non-metals

Chemistry Assignment

Q1. How are elements classified ?

Q2. What are metalloids ? Give 2 examples.

Q3 a. Define the terms: Malleability and Ductility

b. Name the two most malleable metals.

Q4. State the difference between metals and non metals on the basis of the following criteria –

a. Lustre b. Thermal & electrical conductivity

c. Physical state d. Ductility

Q5. Answer in one word:

a. A liquid metal

b. A liquid non metal

c. A soft metal

d. A lustrous non metal

e. A hardest naturally occurring non metal

f. A non-metal which conducts electrically

g. A metal having low melting point

Q6. State the differences between:- Metals and non –metals in their reaction with Oxygen. Give 2 examples of the kind of oxides formed by them.

Q7. Explain the phenomena of rusting with the help of a word equation ?

Q8. Give reasons:- a. When Iron is mixed with Copper Sulphate Solution, the colour of the solution changes.

b. Metals like Sodium & Potassium are stored in Kerosene oil while non-metals like Phosphorous is stored in water.

c. Copper is used for making electrical wires.

d. Copper loses its Lustre and develops a green coating over it when exposed to atmosphere.

Q9. An unknown element X reacts in air to form its oxide Y. This Y dissolves in water which turns blue litmus into red. Predict whether X is a metal or a non-metal ?

Q10. a. Name the products formed when a piece of Sodium metal is added to water.

b. When the solution so formed, is tested with litmus, what kind of colour change is expected ? Reason out your answer.

Q11. How do you test the presence of Hydrogen gas ?

Q12. Complete the following reactions:-

a. Magnesium + Oxygen \rightarrow

b. Magnesium Oxide + Water \rightarrow

c. Iron + Oxygen + Water \rightarrow

d. Sulphur dioxide + Water \rightarrow

e. Aluminium + Hydrochloric acid \rightarrow

f. Iron + Sulphuric Acid \rightarrow

g. Copper + Hydrochloric acid \rightarrow

h. Copper + Sulphuric acid (dil.) \rightarrow

i. Copper Sulphate + Zinc \rightarrow

j. Copper Sulphate + Iron \rightarrow

k. Copper + Zinc Sulphate \rightarrow

l. Copper + Iron Sulphate \rightarrow

m. Zinc Sulphate + Iron \rightarrow

Q13. A Copper statue was found to lose its lustre after some time. A layer of dull green coating was deposited over it. Explain the cause along with a relevant word equation.

Q14. Consider the following reactions –

a. $A + BX \rightarrow AX + B$

b. $B + CY \rightarrow BY + C$

Arrange A, B, C in the increasing order of their reactivity.

Q15. What would happen when a Copper wire is dipped in Silver Nitrate solution ?

Q16. Can you guess?

a. Non-metal essential for our life

b. Non-metal used in fertilizers for growth of plants

c. Non-metal which is used in purification of water

d. Non-metal used as an antiseptic over wounds

e. Non-metal used in crackers