



Class 10 Science | Metals And Non-Metals

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. A metal can be drawn into thin wires because it is:

- A. Brittle B. Sublimable
C. Ductile D. Transparent

2. Which non-metal conducts electricity well in one common allotrope?

- A. Oxygen B. Sulfur
C. Carbon as graphite D. Phosphorus

3. Sodium is stored under kerosene mainly to prevent reaction with:

- A. Glass B. Copper
C. Air and moisture D. Nitrogen only

4. Which metal reacts vigorously with cold water?

- A. Potassium B. Gold C. Copper D. Silver

5. Aluminium resists further corrosion because it develops a:

- A. Protective oxide layer
B. Non-metallic core
C. Coating of hydrogen
D. Layer of liquid aluminium

6. Which oxide reacts with both acids and bases?

- A. CO_2 B. Al_2O_3 C. SO_2 D. Na_2O

7. A zinc strip displaces copper from CuSO_4 because zinc is:

- A. Less reactive than copper
B. Insoluble in every acid
C. A non-metal
D. More reactive than copper

8. Which pair will not normally show displacement?

- A. $\text{Cu} + \text{ZnSO}_4$ B. $\text{Cu} + \text{AgNO}_3$
C. $\text{Fe} + \text{CuSO}_4$ D. $\text{Zn} + \text{CuSO}_4$

9. An ionic compound usually has a high melting point because of:

- A. Absence of ions
B. Weak attractions between molecules
C. Strong electrostatic forces between ions
D. Free motion of ions in the solid

10. During formation of MgCl_2 , one magnesium atom:

- A. Loses two electrons B. Gains two electrons
C. Gains two neutrons D. Loses one proton

11. A metal high in the reactivity series is usually extracted by:

- A. Washing with water
B. Heating its ore in air only
C. Electrolysis of a suitable molten compound
D. Reduction with charcoal only

12. Roasting converts a sulfide ore mainly into an:

- A. Oxide
B. Alloy
C. Element without oxidation
D. Hydroxide

13. Calcination of zinc carbonate produces:

- A. Zn and O_2 B. ZnO and CO_2
C. ZnS and CO_2 D. ZnCl_2 and H_2

14. In electrolytic refining of copper, impure copper is the:

- A. Anode B. Cathode C. Insulator D. Electrolyte

15. Galvanisation protects iron by coating it with:

- A. Sodium B. Carbon C. Zinc D. Sulfur

ANSWER KEY — check after completing all 15 questions

1.C 2.C 3.C 4.A 5.A 6.B 7.D 8.A 9.C 10.A 11.C 12.A 13.B 14.A 15.C

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper