

Science | Worksheet | Grade X
Metal & Non-Metal (1marks)

1. Name two metals which do not react with oxygen
2. Name two metals which catch fire if kept in open air
3. Give the reaction if any when the following metals are treated with copper sulphate solution;
 - (i) Pt
 - (ii) Zn
 - (iii) Ag
4. Name the three metals which do not react with water at all
5. A metal 'X' displaces metal 'Y' from $Y_2(SO_4)_3$ aqueous solution) Which metal is most reactive 'X' or 'Y'?
6. Metal is found to be present in vitamin B₁₂ Name the metal
7. Which metal acts as anode during the electrolytic refining?
8. Explain why the surface of some metals acquires dull appearance when exposed to air for a long time?
9. Why are metals highly electropositive in nature?
10. Why does zinc liberate hydrogen gas when it reacts with dilute hydrochloric acid but copper does not?
11. All ores are minerals while all minerals are not ores, Elaborate
12. Why is sulphide ore converted to its oxide before reduction?
13. Why is sodium kept immersed in kerosene oil?
14. Which gas is produced when dilute hydrochloric acid is added to a reactive metal?
Write the chemical reaction when iron reacts with dilute H_2SO_4
15. What are amphoteric oxides? Give examples of two amphoteric oxides.
16. State two ways to prevent the rusting of iron.

17. What are metalloids?
18. Define gangue.
19. What is an amalgam?
20. Which one of the following metals does not react with oxygen even at high temperatures?
 - (i) Calcium
 - (ii) Gold
 - (iii) Sodium
21. Name two metals which are both ductile as well as malleable
22. Write the chemical equation for the reaction of hot aluminum with steam
23. A green layer is gradually formed on a copper plate left exposed to air for a week in a bathroom. What could this green substance be?
24. Name an alloy of copper used for making utensils
25. What is rust? Write its chemical formula
26. Name two metals which do not corrode
27. Which one of the metal in the following group are Au, Na, Cu, Ca? (a) most reactive (b) least reactive
28. Which chemical element is alloyed with copper to make bronze?
29. Which one is more reactive, Ag or Pt?
30. Which chemical process is used to extract a metal from its oxide?
31. What type of oxides are formed when non- metals combine with oxygen?
32. Carbonates and sulphide ores are usually converted into oxide ores, why?
33. In the electrolytic refining of a metal M, what would you take as the anode, the cathode and the electrolyte?
34. Write the chemical equation to represent the reaction taking place between potassium metal and cold water
35. How is corrosion of iron prevented by coating it with a layer of oil?