



**Octahedral classes, kharadi**  
2nd floor, yashwant plaza, near bank of India,

**Class 08 - Science**  
**metal non metal**

**Maximum Marks: 50**

**Time Allowed: 1 hour and 30 minutes**

**Section A**

1. **State whether the following statements are true or false.** **2**
  - a. Silicon and germanium are metalloids.
  - b. Sulphur can be drawn into wires.
  - c. Aluminium and gold are malleable metals.
  - d. Iodine is a non metal having lustre.
2. **State whether the following statements are true or false.** **2**
  - a. Copper displaces zinc from zinc sulphate solution.
  - b. Rust formed on iron objects is basic in nature.
  - c. Non metals react with water to form a gas which burns with a pop sound.
  - d. Iron can displace copper from copper sulphate solution
3. **Fill in the blanks:** **1**
  - (i) \_\_\_\_\_ has antiseptic properties.
  - (ii) German silver has \_\_\_\_\_ as major constituent.
  - (iii) \_\_\_\_\_ is used by plants, animals and human being for their survival.
4. **Fill in the blanks:** **1**
  - (i) Both \_\_\_\_\_ and \_\_\_\_\_ find extensive use in the native form as well as compounds.
  - (ii) Nitrates of \_\_\_\_\_ find use in photography.
  - (iii) A solution of \_\_\_\_\_ in alcohol has antiseptic properties.
5. **Fill in the blanks:** **1**
  - (1) \_\_\_\_\_ are used in making machinery.
  - (2) Metals give \_\_\_\_\_ when they react with acids.
  - (3) Materials can be classified into \_\_\_\_\_ and \_\_\_\_\_.
6. **Fill in the blanks:** **1**
  - (i) Noble gases are found in \_\_\_\_\_.

- (ii) \_\_\_\_\_ are generally brittle.
- (iii) Potassium after combustion will form \_\_\_\_\_.
7. Fill in the blanks: 1
- (i) Phosphorus is very \_\_\_\_\_ non-metal.
- (ii) Metals are \_\_\_\_\_ conductor of heat and \_\_\_\_\_.
- (iii) Iron is \_\_\_\_\_ reactive than copper.
8. **State whether the following statements are true or false.** 1
- a. Silicon and germanium are metalloids.
- b. Sulphur can be drawn into wires.
- c. Aluminium and gold are malleable metals.
- d. Iodine is a non metal having lustre.
9. **State whether the following statements are true or false.** 1
- a. All non metals are soft.
- b. Sulphur is a poor conductor of heat and electricity.
- c. Metals form basic oxides with oxygen.
- d. When metals react with dilute acids carbon dioxide gas is produced.
10. **State whether the following statements are true or false.** 1
- a. All metals exist in solid form at room temperature.
- b. Coal can be drawn into wires.
- c. Non metals react with dilute acids to produce hydrogen gas.
- d. Sodium is a very reactive metal.
11. Why is tincture iodine applied on wounds? 2
12. Explain the reaction of sodium and water with the help of an activity. 2
13. List different uses of metals that you come across in everyday life. 2
14. Saloni took a piece of burning charcoal and collected the gas evolved in a test tube. Write down word equations of all the reactions taking place in this process. 2
15. Write the reaction of metals with sulphur? 2
16. Write the reaction of metals with hydrogen? 2
17. Why is aluminium used in making airplanes? 2
18. Write the reaction of non-metals with Basic Oxides. 2
19. Write the reaction of non-metals with hydrogen. 2
20. Silver does not combine easily with oxygen but silver jewellery tarnishes after some time. Why? 2
21. Why is sodium stored in kerosene? 3

22. Name the following: **3**
- a. A liquid non metal.
  - b. A metal that is neither malleable nor ductile.
  - c. A non metal having lustre.
23. Explain the reaction of non-metals with oxygen with the help of an activity. **3**
24. What happens when a copper vessel is exposed to moist air? **3**
25. Write the differences between metals and non-metals based on their physical properties. **3**
26. Write the reaction of metals with acids? **3**