

Sample Paper – 2008

Subject – Science

Class – X

## **METALS AND NON METALS**

1. What will happen if a strip of copper is kept immersed in a solution of silver nitrate?
2. What is thermite reaction? Write reactions.
3. Name the metal and non-metal found in liquid state.
4. What is the role of activity series in the chemistry?
5. What is pig and wrought iron?
6. How is mercury extracted from its ore?
7. What are non metals?
8. Why hydrogen gas is not evolved when a metal reacts with nitric acid?
9. What is difference between malleability and ductility?
10. Why potassium is kept in kerosene?
11. Which non metal is lustrous?
12. Why gold is found in Free State?
13. Why we use 22 carat gold?
14. What is ore and gangue?
15. What is metallurgy?
16. Write a reaction between manganese di oxide and aluminum?
17. Which metals do not corrode easily?
18. What do you mean by electrolytic reduction? Explain this process?
19. What are amphoteric oxides? Explain with an example?
20. What happen when metals are burnt in air? Explain with examples of copper and aluminum?
21. What are endothermic and exothermic reactions?
22. What is roasting and calcination ? Explain?
23. Write reactions to obtain copper by simple heating?
24. How does following react with water  
Calcium    b) sodium    c)iron    d) aluminium
25. Explain the electrolytic refining of copper?
26. Explain the formation of magnesium chloride?
27. Which non metal conducts electricity?
28. What is galvanization?
29. Why the surface of copper becomes green after exposed to air for sometime?
30. Differentiate between metal and non metal?
31. What are electrovalent bonds? Explain its properties?
32. What is an alloy? What is use of it? What is the composition of solder, brass? Write its uses also?
33. Show in a tabular form the various steps involved in the e extraction of metals from its ore?
34. What is corrosion? Give two examples when it is useful? How it can be prevented?
35. Which metal can be cut with knife?
36. Which is lusturous non metal?
37. What happen when metals are burnt in air?
38. What are alkalis? How are these prepared?
39. Why is potassium kept in kerosene?

40. Why magnesium starts floating on the water?
41. Why hydrogen gas is not evolved when a metal reacts with nitric acid?
42. What do you mean by concentration of an ore?
43. What is corrosion? Give two examples when it is useful? How it can be prevented?
44. What are basic and acidic oxides? Give examples