

## CBSE TEST PAPER-01

### SCIENCE & TECHNOLOGY (Class-10)

#### Chapter 3. Metal and Non-metals

1. Name two metals which do not react with oxygen. (1 mark)
2. Name two metals which do not react with water at all. (1 mark)
3. Name any two metals which are soft and can be cut with an ordinary knife. (1 mark)
4. Give electron dot structure of Cl(17) and O(8). (1 mark)
5. Name one non-metal with metallic luster. (1 mark)
6. Name two elements which show both metallic and non-metallic character. (1 mark)
7. Explain why the surface of some metals acquire dull appearance when exposed to air for a long time. (2 marks)
8. What are amphoteric oxides? Give examples two amphoteric oxides. (2 marks)
9. State two ways to prevent the rusting of iron. (2 marks)
10. Why is aluminium extracted from alumina by electrolytic reduction and not by reducing with carbon? (2 marks)
11. Define the terms: (3 marks)
  - (i) Mineral
  - (ii) Ore and
  - (iii) Gangue
12. Explain how the following metals are obtained from their compounds by the reaction process:
  - (i) Metal 'X', which is low in reactivity series.
  - (ii) Metal 'Y', which is middle in reactivity series.
  - (iii) Metal 'Z' which is high up in the reactivity series. (3 marks)
13. Give reasons: (5 marks)
  - (i) The surface of some metals acquires a dull appearance when exposed to air for a long time.
  - (ii) Sodium is kept immersed in kerosene oil.
  - (iii) A salt which does not conduct electricity in the solid state becomes a good conductor in molten state.
  - (iv) Ionic compounds have generally high melting points.
  - (v) An iron grill is painted frequently.