

CBSE TEST PAPER-06

SCIENCE & TECHNOLOGY (Class-10)

Chapter 1. Chemical Reaction and Equations

- 1. Write a chemical equation for each of the following reactions (2 marks)

 (i) Zing metal reacts with aqueous solution of hydrochloric acid to form zing chloride
 - (i) Zinc metal reacts with aqueous solution of hydrochloric acid to form zinc chloride solution and hydrogen gas.
 - (ii) When solid mercury (II) oxide is heated, liquid mercury and oxygen gas are produced.
- 2. Give two examples from daily life where redox reactions are taking place. (2 marks)
- 3. State any two methods to prevent or retard the development of rancidity in fat and oil containing foods. (2 marks)
- 4. Why articles made of aluminium do not corrode? (2 marks)
- 5. Giving examples explain the difference between balanced and unbalanced chemical equations. (2 marks)
- 8. What is the difference between displacement and double displacement reactions? Write equations for these reactions. (3 marks)
- 9. What are the three essentials of a chemical equation? (3 marks)
- 10. What is corrosion? What are its effects? State two conditions necessary for the rusting of iron. (3 marks)

Or

- 11. (i) What is meant by 'oxidation' in terms of oxygen?
 - (ii) In the reaction represented by the equation:

 $MnO_2 + 4HCI \longrightarrow MnCI_2 + 2H_2O + CI_2$

- (a) Name the substance oxidised (b) Name the oxidizing agent
- (c) Name the substance reduced (d) Name the reducing agent.

ne the reducing agent. (5 marks)

Write one activity to show the decomposition of a chemical compound with the evolution of a gas.

- 12. (i) Explain the term 'corrosion' with an example.
 - (ii) Which chemical reaction is involved in the corrosion of iron?
 - (iv) Name any two objects (or structures) which are gradually damaged by the corrosion of iron and steel?
 - (v) Name two metals which corrode easily and two metals which do not corrode easily.
 - (vi) Aluminium corrodes in moist air but it is widely used for making cooking vessels and other cutlery. Explain. (5 marks)