

UNIT- 10 – TYPES OF CHEMICAL REACTIONS**I. Answer in brief (2/3 marks)**

1. What happen during a chemical reaction?
2. What is a balanced chemical equation?
3. What is combination reactions? Give example.
4. What are the types of combination reaction?
5. What is thermolysis? Give example.
6. Define electrolytic decomposition reaction? Give example.
7. What is photolysis? Give example.
8. Differentiate combination reactions and composition reaction.
9. Write a note on combustion reactions.
10. Differentiate reversible and irreversible reactions.
11. What is ionic product of water?
12. Define pH and POH.
13. Lemon juice has a pH2, what is the concentration of H⁺ ions?
14. Calculate the pH of 1.0 x 10⁻⁴ molar solution of HNO₃.

II. Answer in a paragraph (5 marks)

1. Explain displacement reaction and its types.
2. Explain precipitation reactions with examples.
3. Explain neutralization reactions with example.
4. Explain the factors affecting rate of a reaction.
5. What is a chemical equilibrium? What are its characteristics?
6. How does pH play an important role in everyday life?