

# CHEMISTRY Exam Paper

## Subjective Questions

1. Explain the difference between ionic and covalent bonds with examples.
2. What is the periodic table and how does it relate to the properties of elements?
3. Discuss the process of electrolysis and its applications.
4. Describe the various types of chemical reactions and provide examples.
5. What is the concept of molarity and how is it calculated?
6. Explain the laws of thermodynamics and their importance in chemical reactions.
7. What is the difference between acids, bases, and salts? Explain with examples.
8. Describe the process of oxidation and reduction in redox reactions.
9. What is the role of catalysts in chemical reactions?
10. Explain the concept of chemical equilibrium and Le Chatelier's principle.

## MCQ Questions

11. What is the chemical symbol for water?

a) H <sub>2</sub> O	b) H <sub>2</sub> O <sub>2</sub>
c) CO <sub>2</sub>	d) O <sub>2</sub>
12. What is the atomic number of carbon?

a) 6	b) 8
c) 12	d) 14
13. What is the pH of a neutral solution?

a) 7	b) 0
c) 14	d) 10
14. What is the molecular formula for methane?

a) CH <sub>3</sub>	b) CH <sub>4</sub>
c) C <sub>2</sub> H <sub>4</sub>	d) C <sub>2</sub> H <sub>6</sub>

15. Which element is needed for combustion?

a) Oxygen

b) Nitrogen

c) Carbon

d) Hydrogen