## **CHEMISTRY Exam Paper**

## **Subjective Questions**

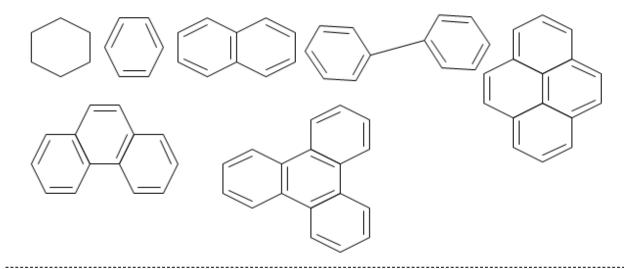
1. Explain the difference between ionic and covalent bonds with examples.	
Answer:	
2. What is the periodic table and how does it relate to the properties of elements?	
Answer:	
3. Discuss the process of electrolysis and its applications.	
Answer:	
4. Describe the various types of chemical reactions and provide examples.	
Answer:	

5. What is the concept of molarity and how is it calculated?
Answer:
6. Explain the laws of thermodynamics and their importance in chemical reactions.
Answer:
7. What is the difference between acids, bases, and salts? Explain with examples.
Answer:
8. Describe the process of oxidation and reduction in redox reactions.
Answer:
9. What is the role of catalysts in chemical reactions?
Answer:

10. Explain the concept of chemical equilibrium and Le Chateller's principle.		
Answer:		
MCQ Questions		
11. What is the atomic number of Hydrogen?		
a) 1	b) 2	
c) 3	d) 4	
12. What is the formula for water?		
a) H2O	b) CO2	
c) O2	d) H2O2	
13. Which element is represented by the symbol "O"?		
a) Oxygen	b) Osmium	
c) Ozone	d) Onium	
14. What is the chemical formula of methane?		
a) CH4	b) C2H6	
c) C3H8	d) C4H10	
15. What is the atomic number of Carbon?		
	b) 9	
a) 6	b) 8	
c) 12	d) 14	

**Diagram Questions** 

16. Draw the molecular structure of methane (CH4).



17. Illustrate the pH scale and label the acidic, neutral, and basic regions.

