

3. Which oxides cause acid rain ? What is its pH value ?
4. The empirical formula of a compound is  $\text{CH}_2\text{O}$ . Its molecular weight is 90. Calculate the molecular formula of the compound.
5. What is Chemical Oxygen Demand (COD) ?
6. How does graphite function as a lubricant ?
7. How is water gas prepared ?
8. State the first law of the thermodynamics.
9. What is the relationship between  $C_p$  and  $C_v$  ?
10. Write IUPAC names of the following compounds :



## SECTION B

6×4=24

Note :—Answer ANY SIX questions.

11. Deduce :
  - (a) Boyle's law, and
  - (b) Charles's law
 from kinetic gas equation.
12. Explain the hybridization involved in  $\text{PCl}_5$  molecule.
13. Explain the formation of coordinate covalent bond with one example.
14. Balance the following redox reaction by Ion-electron method :
 
$$\text{MnO}_4^- + \text{SO}_2 \rightarrow \text{Mn}^{2+} + \text{HSO}_4^-$$

(aq)     (g)                    (aq)     (aq)

(acidic solution)
15. Discuss the application of Le-Chatelier's principle for the synthesis of Ammonia by Haber's process.
16. What is hard water ? Write a note on the Calgon's method for the removal of hardness of water.

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## **Table of Contents Chemistry 1st Paper Of Intermediate**

1. Understanding the eBook Chemistry 1st Paper Of Intermediate
  - The Rise of Digital Reading Chemistry 1st Paper Of Intermediate
  - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry 1st Paper Of Intermediate
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chemistry 1st Paper Of Intermediate
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry 1st Paper Of Intermediate
  - Personalized Recommendations
  - Chemistry 1st Paper Of Intermediate User Reviews and Ratings
  - Chemistry 1st Paper Of Intermediate and Bestseller Lists
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- Chemistry 1st Paper Of Intermediate Budget-Friendly Options
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  - Chemistry 1st Paper Of Intermediate Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chemistry 1st Paper Of Intermediate
  - Highlighting and Note-Taking Chemistry 1st Paper Of Intermediate
  - Interactive Elements Chemistry 1st Paper Of Intermediate
- 8. Staying Engaged with Chemistry 1st Paper Of Intermediate
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chemistry 1st Paper Of Intermediate
- 9. Balancing eBooks and Physical Books Chemistry 1st Paper Of Intermediate
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chemistry 1st Paper Of Intermediate
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chemistry 1st Paper Of Intermediate
  - Setting Reading Goals Chemistry 1st Paper Of Intermediate
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chemistry 1st Paper Of Intermediate
  - Fact-Checking eBook Content of Chemistry 1st Paper Of Intermediate
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
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