

CHEMISTRY PAPER 1 (THEORY)

Maximum Marks: 70

Time Allowed: Three hours

*Candidates are allowed additional 15 minutes for only reading the paper.
They must NOT start writing during this time.*

This paper is divided into four sections – A, B, C and D.

Answer all questions.

Section A consists of one question having sub-parts of one mark each.

Section B consists of ten questions of two marks each.

Section C consists of seven questions of three marks each, and

Section D consists of three questions of five marks each.

Internal choices have been provided in one question each in Section B,

Section C and Section D.

All working, including rough work, should be done on the same sheet as, and adjacent to the rest of the answer.

The intended marks for questions or parts of questions are given in brackets [].

Balanced equations must be given wherever possible and diagrams where they are helpful.

When solving numerical problems, all essential working must be shown.

In working out problems, use the following data:

$$\begin{aligned}\text{Gas constant } R &= 1.987 \text{ cal deg}^{-1} \text{ mol}^{-1} = 8.314 \text{ JK}^{-1} \text{ mol}^{-1} \\ &= 0.0821 \text{ dm}^3 \text{ atm K}^{-1} \text{ mol}^{-1}\end{aligned}$$

$$1 \text{ l atm} = 1 \text{ dm}^3 \text{ atm} = 101.3 \text{ J} \quad 1 \text{ Faraday} = 96500 \text{ coulombs.}$$

$$\text{Avogadro's number} = 6.023 \times 10^{23}$$

SECTION A – 14 MARKS

Question 1

- (A) Fill in the blanks by choosing the appropriate word(s) from those given in the [4×1]
brackets:

[stable, low, aldehyde, unstable, 6, 4, ethane, Clemmensen's, 2, 3, carboxylic acid, high, propane, Rosenmund's]

- (i) The primary alcohols are easily oxidised first into _____ and then into _____.
- (ii) The intermediate activated complex in a chemical reaction is highly _____ due to _____ energy.
- (iii) The coordination number and oxidation state of the complex $K_4[Fe(CN)_6]$ are _____ and _____ respectively.
- (iv) Propanone on reaction with zinc-amalgam in presence of conc. HCl gives _____ and the reaction is known as _____ reduction.

This Paper consists of 8 printed pages.

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1. Understanding the eBook Answers Of Board Questions Chemistry 2nd Paper
 - The Rise of Digital Reading Answers Of Board Questions Chemistry 2nd Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Of Board Questions Chemistry 2nd Paper
 - 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 Answers Of Board Questions Chemistry 2nd Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Of Board Questions Chemistry 2nd Paper

- Personalized Recommendations
- Answers Of Board Questions Chemistry 2nd Paper User Reviews and Ratings
- Answers Of Board Questions Chemistry 2nd Paper and Bestseller Lists
- 5. Accessing Answers Of Board Questions Chemistry 2nd Paper Free and Paid eBooks
 - Answers Of Board Questions Chemistry 2nd Paper Public Domain eBooks
 - Answers Of Board Questions Chemistry 2nd Paper eBook Subscription Services
 - Answers Of Board Questions Chemistry 2nd Paper Budget-Friendly Options
- 6. Navigating Answers Of Board Questions Chemistry 2nd Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers Of Board Questions Chemistry 2nd Paper Compatibility with Devices
 - Answers Of Board Questions Chemistry 2nd Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers Of Board Questions Chemistry 2nd Paper
 - Highlighting and Note-Taking Answers Of Board Questions Chemistry 2nd Paper
 - Interactive Elements Answers Of Board Questions Chemistry 2nd Paper
- 8. Staying Engaged with Answers Of Board Questions Chemistry 2nd Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers Of Board Questions Chemistry 2nd Paper
- 9. Balancing eBooks and Physical Books Answers Of Board Questions Chemistry 2nd Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers Of Board Questions Chemistry 2nd Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers Of Board Questions Chemistry 2nd Paper
 - Setting Reading Goals Answers Of Board Questions Chemistry 2nd Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers Of Board Questions Chemistry 2nd Paper

- Fact-Checking eBook Content of Answers Of Board Questions Chemistry 2nd Paper
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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