

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:

Gas constant $R = 1.987 \text{ cal deg}^{-1} \text{ mol}^{-1} = 8.314 \text{ JK}^{-1} \text{ mol}^{-1}$

$= 0.0821 \text{ dm}^3 \text{ atm K}^{-1} \text{ mol}^{-1}$

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

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 $\text{K}_4[\text{Fe}(\text{CN})_6]$ 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.

Turn over

Grade Chemistry Third Term Exam Paper

Wolfgang Guggemos



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Table of Contents Grade Chemistry Third Term Exam Paper

1. Understanding the eBook Grade Chemistry Third Term Exam Paper
 - The Rise of Digital Reading Grade Chemistry Third Term Exam Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade Chemistry Third Term Exam 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 Grade Chemistry Third Term Exam Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade Chemistry Third Term Exam Paper
 - Personalized Recommendations
 - Grade Chemistry Third Term Exam Paper User Reviews and Ratings
 - Grade Chemistry Third Term Exam Paper and Bestseller Lists
5. Accessing Grade Chemistry Third Term Exam Paper Free and Paid eBooks
 - Grade Chemistry Third Term Exam Paper Public Domain eBooks
 - Grade Chemistry Third Term Exam Paper eBook Subscription Services
 - Grade Chemistry Third Term Exam Paper Budget-Friendly Options

6. Navigating Grade Chemistry Third Term Exam Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade Chemistry Third Term Exam Paper Compatibility with Devices
 - Grade Chemistry Third Term Exam Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade Chemistry Third Term Exam Paper
 - Highlighting and Note-Taking Grade Chemistry Third Term Exam Paper
 - Interactive Elements Grade Chemistry Third Term Exam Paper
8. Staying Engaged with Grade Chemistry Third Term Exam Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade Chemistry Third Term Exam Paper
9. Balancing eBooks and Physical Books Grade Chemistry Third Term Exam Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade Chemistry Third Term Exam Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade Chemistry Third Term Exam Paper
 - Setting Reading Goals Grade Chemistry Third Term Exam Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade Chemistry Third Term Exam Paper
 - Fact-Checking eBook Content of Grade Chemistry Third Term Exam 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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