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 cal deg' mot' = 8.314 JK' mot' = 0.0821 dm' atm K'mot'

I I atm = I dm3 atm = 1013 J. I Faraday = 96500 coulombs.

Avogadro's number = 6.023×10^{19} .

SECTION A – 14 MARKS

Ouestion 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 exidation state of the complex K₄[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.

Turn over

Diploma Polytechnic 1st Year Chemistry Question Paper

L Reisser

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Table of Contents Diploma Polytechnic 1st Year Chemistry Question Paper

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

- 6. Navigating Diploma Polytechnic 1st Year Chemistry Question Paper eBook Formats
 - o ePub, PDF, MOBI, and More
 - Diploma Polytechnic 1st Year Chemistry Question Paper Compatibility with Devices
 - Diploma Polytechnic 1st Year Chemistry Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Diploma Polytechnic 1st Year Chemistry Question Paper
 - Highlighting and Note-Taking Diploma Polytechnic 1st Year Chemistry Question Paper
 - o Interactive Elements Diploma Polytechnic 1st Year Chemistry Question Paper
- 8. Staying Engaged with Diploma Polytechnic 1st Year Chemistry Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Diploma Polytechnic 1st Year Chemistry Question Paper
- 9. Balancing eBooks and Physical Books Diploma Polytechnic 1st Year Chemistry Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Diploma Polytechnic 1st Year Chemistry Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Diploma Polytechnic 1st Year Chemistry Question Paper
 - Setting Reading Goals Diploma Polytechnic 1st Year Chemistry Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Diploma Polytechnic 1st Year Chemistry Question Paper
 - Fact-Checking eBook Content of Diploma Polytechnic 1st Year Chemistry Question Paper
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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web when do boys start puberty boys begin puberty sometime between the ages of 9 and 14 boys hit puberty about two years later than girls however black and hispanic boys tend to enter puberty a bit earlier than white boys if your son starts showing signs of puberty before age 9 it s worth asking his pediatrician about these early changes

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web tanner scale female pubic hair forms in response to the increasing levels of testosterone in both girls and boys those hair follicles that are located and stimulated in androgen sensitive areas develop pubic hair 1 the tanner scale describes and quantifies the development of pubic hair

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