

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.

Waec Chemistry Question Paper

Umesh Ramnarain



Waec Chemistry Question Paper:

WAEC in Review Benjamin Freeman Jr.,2014-11-07 WAEC in Review is a practical intervention strategy in transforming the weakening educational system of Liberia where academic excellence is unceasingly diminishing LIPACE Pilot Study Guide is not only a landmark achievement in the educational history of Liberia but a remarkable strive towards the proper preparation of Liberian students for future diets of the WAEC exam As a member of the National Committee of the West African Examinations Council and a Stakeholder in the Liberian Education System I wish to recommend the use of this study guide to adequately prepare each and every Liberian student for future examinations thereby setting the stage for an easy transition to the emerging West African Senior Secondary Examinations WASSCE I am explicitly confident that you will definitely find your journey through this guide very rewarding as you prepare to sit the next WAEC Exam David S Massaquoi Sr director of Education The Salvation Army Liberia Command Education Secretariat Our students sit the exam in constant fear of proctors and supervisors They know nothing about the exam and its structure and this fear lead to them failing massively We need to build the confidence level of our students and help them to study hard and understand the roles of proctors and supervisors to stop the intimidation during the exam Thanks to LIPACE and the Turning the Tide project we have helped our students achieved an amazing achievement for the first time in the history of Gbarpolu County where all senior students successfully passed the exam Lartey Bemah principal of Bopolu Public School 2012 2013 Gbarpolu County Liberia

Handbook of Research on the Role of Human Factors in IT Project Management Misra, Sanjay,Adewumi, Adewole,2019-09-27 The role humans play in the field of information technology continues to hold relevance even with the industry s rapid growth People contribute heavily to the physical cognitive and organizational domain of computing yet there is a lack of exploration into this phenomenon Humanoid aspects of technology require extensive research in order to avoid marginalization and insufficient data The Handbook of Research on the Role of Human Factors in IT Project Management is a collection of innovative research on the methods and applications of the task of human characteristics in the design and development of new technology While highlighting topics including digitalization risk management and task analysis this book is ideally designed for IT professionals managers support executives project managers managing directors academicians researchers and students seeking current research on the dynamics of human influence in technological projects

School Science Practical Work in Africa Umesh Ramnarain,2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work The book highlights trends and patterns in the enactment and role of practical work across African countries Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the

traditional teacher dominated to a learner centered approach The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work and professional development in teaching practical work This book will be of great interest to academics researchers and post graduate students in the fields of science education and educational policy

Questions in chemistry and natural philosophy, given at the matriculation examination, from 1864 to June 1873. Classified by C.J. Woodward. From 1864 to Jan. 1881. Containing answers London univ, exam. papers,1881

Proceedings of the ... Annual Conference and ... Conference of CASTME Africa Science Teachers Association of Nigeria. Conference,2004 **West Africa** ,1993 FCT Education Secretariat Journal of Curriculum Studies and Instruction ,2008-07 **Refocusing Research in Science, Technology, and Mathematics (STM) Education** Science Teachers Association of Nigeria. Annual Conference,2004 *Impact of Examination Policy on Teaching Chemistry in Nigerian Secondary Schools* David Afolayan Alao,1988 **Tell** ,2005

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Table of Contents Waec Chemistry Question Paper

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

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

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