

# ZIMBABWE SCHOOL EXAMINATIONS COUNCIL General Certificate of Education Advanced Level

#### CHEMISTRY

#### NOVEMBER 2014 SESSION

9189/1

2 hours

Additional materials: Answer paper

PAPER 1

Answer paper Data Booklet Mathematical tables and/or electronic calculator Graph paper

TIME: 2 hours

#### INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer six questions.

Answer two questions from Section A, one question from Section B, two questions from Section C and one other question chosen from any section.

Write your answers on the separate answer paper provided.

If you use more than one sheet of paper, fasten the sheets together.

#### INFORMATION FOR CANDIDATES

The number of marks is given in brackets [ ] at the end of each question or part question.

You are reminded of the need for good English and clear presentation in your answers.

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# **Zimsec Examination Paper For Chemistry 2014**

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Pande, Kirubakaran Muniraj, Anand
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#### **Zimsec Examination Paper For Chemistry 2014:**

Validating Technological Innovation David Coniam, Peter Falvey, 2016-04-02 This book discusses Hong Kong s use of onscreen marking OSM in public examinations Given that Hong Kong leads the way in OSM innovation this book has arisen from a recognised need to provide a comprehensive coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong The authors discuss their experience of the validation process demonstrating how high stakes innovation should be fully validated by a series of research studies in order to satisfy key Yearbook of International Organizations 2013-2014 (Volumes 1a-1b) Union Of International stakeholders Associations, Union of International Associations, 2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events General Awareness for Competitive Exams - SSC/ Banking/ NRA CET/ CUET/ Defence/ Railway/ Insurance - 2nd Edition Disha Experts, 2022-06-15 The revised and updated 2nd Edition of the book General Awareness for Competitive Exams SSC Banking Defence Railway Insurance contains specific topics in General Awareness powered with video course which form a part of most of the competitive exams SSC Banking Railway defence Insurance and other exams The book contains the description of the relevent theory along with latest updated information statistics followed by a Practice Exercise The book covers a lot of questions from the past competitive exams All latest exam questions till 2022 have been included in the book 2500 MCQs for practice The book is a must for all SSC Banking Railways defense Insurance and other exam aspirants This book mainly covers History Geography Polity Economics Current Updates Making and Breaking the Grid, Third Edition Timothy Samara, 2023-06-06 Making and Panorama Environment etc Breaking the Grid A Graphic Design Layout Workshop Third Edition is the ultimate resource for designers who want to understand the rules of the grid so they can get better at breaking them **Climate Change Impact on Groundwater** Resources Balamurugan Panneerselvam, Chaitanya Baliram Pande, Kirubakaran Muniraj, Anand Balasubramanian, Nagavinothini Ravichandran, 2022-08-24 This volume discusses climate change impacts on groundwater quality in arid and semi arid regions and provides human health risk assessments due to pollution of surface and groundwater The book presents recent trends in monitoring groundwater management and implementing pollution mitigation strategies including practices involving remote sensing and GIS techniques entropy water quality index weighted arithmetic water quality index fuzzy logic applications and improved irrigation methods The book also outlines hydrological processes in arid and semi arid regions and hydrochemical properties of surface and groundwater as a necessary background for understanding how pollution impacts groundwater quality and resources and how geographical modeling of hydrological processes can aid in human health risk assessments The book is intended for academics administrators policymakers social scientists and professionals involved in the various aspects of climate change impact on groundwater quality hydrological process pollution mitigation strategies sustainable development and environmental planning and management Airborne

Particulate Matter Saurabh Sonwani, Anuradha Shukla, 2022-05-25 This book is about airborne particulate matter sources chemistry and health and contained a complete information about their emission source transport atmospheric chemistry distribution at local regional and global levels and their level in indoor and outdoor settings Primary and secondary particulate matters in the ambient atmosphere also describe in detail Analytical techniques statistical tools and mathematical models used in airborne particulate research is also described This book also covers the important aspects of the particulate matter chemistry in atmosphere and their adverse impact on plant and human health A detailed insight about the harmful impact of airborne particulate matter biogenic and anthropogenic both on different human system is described in detail The toxicological significance of particulate matter on human body was also mentioned The mitigation management and regulatory policies to control ambient particulate matter is also provided This book is also written in simple language with helpful photographs diagrams tables and flowcharts which will make the reader comfortable in understanding the concepts a more relatively easier way Overall the present book is a valuable tool for students working in the fields of Atmospheric Science Environmental Science Biological Sciences Epidemiology and Agriculture Science This book also a unique resource for environmental consultants researchers policymakers and other professionals involved in air quality plant and human The Web of Geological Sciences: Marion E. Bickford, 2017-09-29 The web of geological sciences Special papers health **Using Geochemical** 500 and 523 written in celebration of the 125th anniversary of the Geological Society of America **Data** Hugh Rollinson, Victoria Pease, 2021-05-06 This textbook is a complete rewrite and expansion of Hugh Rollinson's highly successful 1993 book Using Geochemical Data Evaluation Presentation Interpretation Rollinson and Pease's new book covers the explosion in geochemical thinking over the past three decades as new instruments and techniques have come online It provides a comprehensive overview of how modern geochemical data are used in the understanding of geological and petrological processes It covers major element trace element and radiogenic and stable isotope geochemistry It explains the potential of many geochemical techniques provides examples of their application and emphasizes how to interpret the resulting data Additional topics covered include the critical statistical analysis of geochemical data current geochemical techniques effective display of geochemical data and the application of data in problem solving and identifying petrogenetic processes within a geological context It will be invaluable for all graduate students researchers and professionals using geochemical techniques Using Geochemical Data Hugh Richard Rollinson, Hugh Rollinson, Victoria Pease, 2021-05-06 How best to interpret and apply geochemical data to understand geological processes for graduate students researchers and professionals Soil Carbon Dynamics in Indian Himalayan Region Gaurav Mishra, Krishna Giri, Arun Jyoti Nath, Rosa Francaviglia, 2023-12-07 The contributed volume assimilates the knowledge experience and exciting aspects of soil carbon research in the Indian Himalayan region It includes different aspects and factors associated with soil carbon sequestration in the region one of the biodiversity hot spots and highly vulnerable to climatic change impacts Information on different aspects

of soil organic carbon dynamics concerning adaptive land management practices and anthropogenic impacts is covered Further topics include applying advanced tools and techniques to soil carbon vis a vis soil erosion research This book is of interest to researchers and policymakers involved in soil carbon research and offer ideas to enhance the soil carbon in the region concerned In addition the book will provide up to date information for researchers interested in soil carbon research for the maintenance of soil quality and fertility in the climate vulnerable Indian Himalayan region Guide to International Accounting Roger Hussey, Audra Ong, 2019-11-08 Business has become more international and more complex Whether you are a manager a student or someone generally interested in corporate financial information you want information and you want to understand that information Companies in all countries are required to generate financial information if for no other reason than to settle their tax obligations If you are interested in the larger companies such as those listed on a stock exchange they must make financial information public and the nature and type of that information is strictly regulated Companies must comply with accounting standards Many countries use the International Accounting Standards issued by the IFRS Foundation This is a not for profit international organization that has developed a single set of high quality global accounting standards These standards can be complex but this book explains clearly the main Indigenous knowledge systems and climate change management in Africa Ajayi, O.C. requirements (ed), Mafongova, P.L. (ed), 2017-11-15 Climate change presents a profound challenge to food security and sustainable development in Africa Its negative impacts are likely to be greatest in the African region which is already food insecure In the face of global climate change and its emerging challenges and unknowns it is essential that decision makers base policies on the best available knowledge In recent years the knowledge of local and indigenous people often referred to as indigenous knowledge IK has been increasingly recognised as an important source of climate knowledge and adaptation strategies

Trends in Counterfeit Drugs Kelly M. Elkins,2023-07-06 Counterfeit drugs continue to infiltrate the drug market in the United States causing illness and death This book addresses this issue and examines the recent trends in drug counterfeiting over the past 5 10 years The text shows perspectives from crime lab and toxicology lab personnel and academic researchers and includes topics such as a history of cases and issues with counterfeit drugs trends observed in forensic labs instrumental methods and approaches used in detecting counterfeit medicines and policy approaches for controlling counterfeit drugs. There is a focus on ways to reduce counterfeit drugs in the market to help improve the health and safety of people all over the world Features Focuses on recent 5 10 year trends in counterfeit drugs and analysis Shows perspectives from crime lab and toxicology lab personnel and academic researchers Focuses on drugs seized by law enforcement and approaches to reducing counterfeit medicine in the market Discusses the detection and analysis of counterfeit drugs and appropriate tools for combating this issue Emphasizes the global impact of illegal medicines The Web of Geological Sciences Marion Eugene Bickford, 2017 The web of geological sciences Special papers 500 and 523 written in celebration of the 125th

International Research Centers Directory Anthony L. Gerring, 1996-09 A useful contribution to the reference shelf of international directories Booklist New Edition Provides unparalleled access to more than 8 000 government university independent nonprofit and commercial research and development activities in nearly 125 countries worldwide Entries include English and foreign name of center full mail and electronic address personal contact organizational affiliates staff description of research program publications services and more Master subject and country indexes are provided *Ulrich's Periodicals Directory*, 1989 Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons, 2004

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