

Candidate Name

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ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

CHEMISTRY

PAPER 2 Theory

4024/2

NOVEMBER 2022 SESSION

2 hours

Additional materials:

Mathematical tables/ Electronic calculator (optional)

INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces at the top of this page and on all separate answer paper used.

Section A

Answer all questions.

Write your answers in the spaces provided on the question paper.

Section B

Answer any four questions.

Write your answers on the separate answer paper provided.

At the end of the examination, fasten any separate answer paper used securely to the question paper.

Enter the numbers of Section B questions you have answered in the grid.

All essential working must be shown.

INFORMATION FOR CANDIDATES

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

A copy of the Periodic Table is printed on page 14.

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Section A

Section B

TOTAL

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COVID-19 in Zimbabwe Lazarus Chapungu, David Chikodzi, Kaitano Dube, 2023-01-01 This contributed volume based on papers presented at a conference held in Zimbabwe in mid 2021 interrogates solutions to COVID 19 related problems and issues across agricultural environmental and water sectors in Zimbabwe and assesses their scientific economic and practical validity Across 19 chapters this volume unpacks the science economics and politics of the pandemic with a focus on understanding its secondary and tertiary impact on Zimbabwe's population The volume is also dedicated to understanding the practical and policy oriented approaches in tackling the pandemic and confronting the new normal of COVID 19 It brings together researchers development practitioners and policy makers from various disciplines in an endeavour to understand COVID 19 trends and analyse the scientific options for mitigation containment innovation and ultimately pre-empt the possible emergence and impacts of other pandemics in the future **Making Medicines in Africa** Maureen

Mackintosh, Geoffrey Banda, Watu Wamae, Paula Tibandebage, 2016-02-03 This book is open access under a CC BY license The importance of the pharmaceutical industry in Sub-Saharan Africa its claim to policy priority is rooted in the vast unmet health needs of the sub-continent Making Medicines in Africa is a collective endeavour by a group of contributors with a strong African and more broadly Southern presence to find ways to link technological development investment and industrial growth in pharmaceuticals to improve access to essential good quality medicines as part of moving towards universal access to competent health care in Africa The authors aim to shift the emphasis in international debate and initiatives towards sustained Africa based and African led initiatives to tackle this huge challenge Without the technological industrial intellectual organisational and research related capabilities associated with competent pharmaceutical production and without policies that pull the industrial sectors towards serving local health needs the African sub-continent cannot generate the resources to tackle its populations needs and demands Research for this book has been selected as one of the 20 best examples of the impact of UK research on development See <http://www.ukcds.org.uk> the global impact of UK research for further details *Development Naivety and Emergent Insecurities in a Monopolised World* Munyaradzi Mawere, 2018-09-17

It is common knowledge that development without security is like a runaway horse Yet development in Africa has been plagued by insecurities since the extractive periods of slave trade and colonialism In spite of political independence and the euphoria of sovereignty as states Africa has failed to address insecurity which continues to loom large and to threaten aspirations towards truly inclusive and sustainable development A consequence has been Africa's development naivety vis-à-vis the monopolisation of development by the predatory elite actors of the global North and their local facilitators To salvage the continent from such predation and the insecurities engendered requires novel and innovative imagination and praxis This book draws from both the haunted landscapes and bitter memories of past exploitations and from the feeding of the insatiable North with African resources and humanity It brings together essays by a concerned generation of scholars driven

by the urgent need for radical decolonisation of African development and its legacies of insecurities It is handy to students and practitioners in economics policy studies political science development studies global and African studies

International Conference on Computer Science and Software Engineering (CSSE 2014), 2014-11-03 CSSE2014 proceeding tends to collect the most up to date comprehensive and worldwide state of art knowledge on Computer Science and Software Engineering All the accepted papers have been submitted to strict peer review by 2 4 expert referees and selected based on originality significance and clarity for the purpose of the conference The conference program is extremely rich profound and featuring high impact presentations of selected papers and additional late breaking contributions We sincerely hope that the conference would not only show the participants a broad overview of the latest research results on related fields but also provide them with a significant platform for academic connection and exchange The Technical Program Committee members have been working very hard to meet the deadline of review The final conference program consists of 126 papers divided into 4 sessions Investigating the Roles of School Management Teams in Curriculum Delivery Mawela, Ailwei Solomon, van Wyk, Micheal M., Lebeloane, Lazarus, Mudau, Awelani V., 2021-06-25 The COVID 19 pandemic has introduced a new paradigm in education that has forced school management teams to re imagine their curricula delivery functions and obligations during and post COVID 19 Now there are concerns about the state to which curriculum delivery in schools is likely to become planned implemented and managed Investigating the Roles of School Management Teams in Curriculum Delivery improves the quality of planning implementation and management of curriculum delivery to advance the quality of teaching and learning in schools Particularly it envisages innovative strategies best practices and addresses problems in the planning implementation and delivery of curricula by school management teams Covering topics such as curriculum delivery theory curriculum delivery in planning implementation and management during and post COVID 19 curriculum delivery in assessment and alternative assessment and reimagining inclusivity in curriculum delivery this edited book is essential for departmental heads deputy principals education district officials department of basic education curriculum designers instructional designers administrators academicians university teachers researchers and post graduate students *Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)* Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events *Dare to Invent the Future* Clapperton Chakanetsa Mavhunga, 2023-11-21 A rallying manifesto for the innovative problem solving we need to build a better more verdant and sustainable planetary existence Academics are letting Africa down With all that we know what do we have to show for it Whose lives have been changed for the better by it What have we done for and with our communities lately In this provocative book the first in a trilogy Clapperton Chakanetsa Mavhunga argues that our critical thinkers must become actual thinker doers Taking its title from one of Thomas Sankara s most inspirational speeches Dare to Invent the Future looks for moments in Africa s story where precedents of critical

thought and knowledge in service of problem solving are evident to inspire readers to dare to invent such a knowledge system Mavhunga revisits insights from Edward Wilmot Blyden Booker T Washington Aim C saire Frantz Fanon Am Icar Cabral Julius Nyerere and Thomas Sankara to illustrate how the academic disciplines have been and could be deployed in the service of and through problem solving building on what people are doing and know At its core he writes knowledge in the service of and through problem solving derives from reading the past for new questions doing due diligence in the present and contriving an anticipatory approach toward the future Questioning the fundamental premises of Western and white knowledge production especially regarding science and technology Mavhunga proposes in this book refreshingly new approaches to thinking doing that stem from African realities in the hopes of inspiring a generation that will run toward not away from problems to solve them

Wild Plants, Mushrooms and Nuts Isabel C. F. R. Ferreira, Patricia Morales, Lillian Barros, 2017-01-17 Wild Plants Mushrooms and Nuts Functional Properties and Food Applications is a compendium of current and novel research on the chemistry biochemistry nutritional and pharmaceutical value of traditional food products namely wild mushrooms plants and nuts which are becoming more relevant in diets and are especially useful for developing novel health foods and in modern natural food therapies Topics covered will range from their nutritional value chemical and biochemical characterization to their multifunctional applications as food with beneficial effects on health though their biological and pharmacological properties antioxidant antibacterial antifungal antitumor capacity among others

Large Igneous Provinces Richard E. Ernst, 2014-09-25 This book explores all aspects of large igneous provinces as key processes in shaping our planet for researchers graduate students and mining industry professionals

Turn Down the Heat World Bank Publications, 2014-11-20 A Report for the World Bank by the Potsdam Institute for Climate Impact Research and Analytics

Celebrating the Megascale Phillip Mackey, Eric Grimsey, Rodney Jones, Geoffrey Brooks, 2016-12-02 The volume contains more than 70 papers covering the important topics and issues in metallurgy today including papers as follows keynote papers covering a tribute to David Robertson workforce skills needed in the profession going forward copper smelting ladle metallurgy process metallurgy and resource efficiency new flash iron making technology ferro alloy electric furnace smelting and on the role of bubbles in metallurgical processing operations Topics covered in detail in this volume include ferro alloys non ferrous metallurgy iron and steel modeling education and fundamentals

Climate Change and Food Security Elizabeth Thomas Hope, 2016-12-08 Global climatic change has resulted in new and unpredictable patterns of precipitation and temperature the increased frequency of extreme weather events and rising sea levels These changes impact all four aspects of food security availability accessibility stability of supply and appropriate nourishment as well as the entire food system food production marketing processing distribution and prices Climate Change and Food Security focuses on the challenge to food security posed by a changing climate The book brings together many of the critical global concerns of climate change and food security through local cases based on empirical studies undertaken in Sub Saharan Africa and the

Caribbean Focusing on risk reduction and the complex nature of vulnerability to climate change the book includes chapters on the responsiveness of farmers based on traditional knowledge as well as the critical phenomenon of food insecurity in the urban setting Other chapters are devoted to efforts made to strengthen resilience through long term development with interventions at the regional and national levels of scale It also examines cross cutting themes that underlie the strategies employed to achieve food security including equity gender livelihoods and governance This edited volume will be of great interest to students and scholars of climate change food security environmental management and sustainable development

Water user associations ,2018-06-20 *Handbook of Research on Heritage Management and Preservation* Ngulube, Patrick,2018-02-02 Archives museums and libraries are pivotal to the management and preservation of any society s heritage Heritage assets should be systematically managed by putting in place proper policies maintenance procedures security and risks measures and retrieval and preservation plans The Handbook of Research on Heritage Management and Preservation is a critical scholarly resource that examines different aspects of heritage management and preservation ranging from theories that underline the field areas of convergence and divergence in the field infrastructure and the policy framework that governs the field and the influence of the changing landscape on practice Featuring coverage on a broad range of topics such as community involvement records legislation and collection development this book is geared towards academicians researchers and students seeking current research on heritage management and preservation *A Non-Technical 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 requirements

Contamination Control in the Natural Gas Industry Thomas H. Wines,Saeid Mokhatab,2021-11-25 Contamination Control in the Natural Gas Industry delivers the separation fundamentals and technology applications utilized by natural gas producers and processors This reference covers principles and practices for better design and operation of a wide range of media filters and systems to remove contaminants from liquids and gases enabling gas industry professionals to fulfill diverse fluid purification requirements Packed to cover practical technologies diagnostics and troubleshooting methods this book provides gas engineers and technologists with a critical first ever reference geared to contamination control Covers contamination control methods and equipment specific to the natural gas industry Includes guidelines on

fundamentals and real world technologies used today Gives engineers better design and operation with rating methods standards and case histories Routledge Handbook of the History of Sustainability Jeremy L. Caradonna,2017-10-18 The Routledge Handbook of the History of Sustainability is a far reaching survey of the deep and contemporary history of sustainability This innovative resource will help to define the history of sustainability as an identifiable field It provides a unique resource for advanced undergraduates graduate students and scholars and delivers essential context for understanding the current state and future path of the sustainability movement The history of sustainability is an increasingly important domain within the discipline of history which draws on an interdisciplinary set of fields ranging from energy studies transportation and urbanism to environmental history economics and philosophy Key sections in this handbook cover the historiography of sustainability resilience and collapse in historical societies the deep roots of sustainability seventeenth century to nineteenth century the recent history of sustainability twentieth century to present and core issues and key debates in sustainability This handbook is an invaluable research and teaching tool for those interested in the history and development of sustainability and an essential resource for the many sustainability studies programs that now exist in the world s universities **Small reservoirs in Africa: a review and synthesis to strengthen future investment** Saruchera, D.,Lautze, Jonathan,2019-11-04

Assessing Recent Soil Erosion Rates through the Use of Beryllium-7 (Be-7) Lionel Mabit,William Blake,2019-02-18 This open access book is the first comprehensive guideline for the beryllium 7 Be 7 technique that can be applied to evaluate short term patterns and budgets of soil redistribution in agricultural landscapes While covering the fundamental and basic concepts of the approach this book distinguishes itself from other publications by offering step by step instructions on how to use this isotopic technique effectively It covers experimental design considerations and clear instruction is given on data processing As accurate laboratory measurement is crucial to ensure successful use of Be 7 to investigate soil erosion a full chapter is devoted to its specific determination by gamma spectrometry This open access contribution further describes new developments in the Be 7 technique and includes a concluding chapter highlighting its potential benefits to support the implementation of area wide soil conservation policy

Thermal Energy Yatish T. Shah,2018-01-12 The book details sources of thermal energy methods of capture and applications It describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and materials and the methods by which it is transferred It covers 8 sources of thermal energy combustion fusion solar fission nuclear geothermal microwave plasma waste heat and thermal energy storage In each case the methods of production and capture and its uses are described in detail It also discusses novel processes and devices used to improve transfer and transformation processes

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