



ZIMBABWE SCHOOL EXAMINATIONS COUNCIL
General Certificate of Education Advanced Level

CHEMISTRY
PAPER 1

9189/1

NOVEMBER 2014 SESSION

2 hours

Additional materials:

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.

This question paper consists of 9 printed pages and 3 blank pages.

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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

Population Growth and Rapid Urbanization in the Developing World

Benna, Umar G., Garba, Shaibu Bala, 2016-06-07 As the global population continues to boom particularly in the developing countries it has become necessary to find ways to handle this increase through various policy tools that address population growth and urbanization problems The urbanization process has both potentials issues as well as opportunities to move societies forward that need to be exploited Population Growth and Rapid Urbanization in the Developing World examines trends challenges issues and strategies adopted by developing countries in the face of population growth and rapid urbanization and its impact on urban environments The book explores patterns of population growth and urbanization use of different governance approaches in addressing challenges as well as different tools and systems of appropriate allocation to address issues The book is a comprehensive reference for academicians students practitioners professionals managers urban planners and government officials

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

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 stakeholders. **Climate Change**

2014 - Impacts, Adaptation and Vulnerability: Regional Aspects Christopher B. Field, Vicente R. Barros, 2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard reference for all those concerned with climate change and its consequences, including students, researchers and policy makers in environmental science, meteorology, climatology, biology, ecology, atmospheric chemistry and environmental policy.

Climate Change 2014 - Impacts, Adaptation and Vulnerability: Part B: Regional Aspects: Volume 2, Regional Aspects Intergovernmental Panel on Climate Change (IPCC), 2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard reference for all those concerned with climate change and its consequences, including students, researchers and policy makers in environmental science, meteorology, climatology, biology, ecology, atmospheric chemistry and environmental policy. *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 thinkers. 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, Aimé Césaire, Frantz Fanon, Amílcar 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. Water is Life Hellum, Anne, Kameri-Mbote, Patricia, 2015-10-19 This book approached water and sanitation as an African gender and human rights issue. Empirical case studies from Kenya, Malawi, South Africa and Zimbabwe show how coexisting international, national and local regulations of

water and sanitation respond to the ways in which different groups of rural and urban women gain access to water for personal domestic and livelihood purposes The authors who are lawyers sociologists political scientists and anthropologists explore how women cope in contexts where they lack secure rights and participation in water governance institutions formal and informal The research shows how women as producers of family food rely on water from multiple sources that are governed by community based norms and institutions which recognise the right to water for livelihood How these common pool water resources due to protection gaps in both international and national law are threatened by large scale development and commercialisation initiatives facilitated through national permit systems is a key concern The studies demonstrate that existing water governance structures lack mechanisms which make them accountable to poor and vulnerable water users on the ground most importantly women The findings thus underscore the need to intensify measures to hold states accountable not just in water services provision but in assuring the basic human right to clean drinking water and sanitation and also to protect water for livelihoods

Microplastics Hyunjung Kim, 2022-09-19 This book introduces the growing problem of microplastics pollution in the soil and aquatic environment and its interaction with other chemical pollutants Further it provides a detailed review of existing analysis techniques for characterization separation and quantification of microplastics including their merits and demerits with possible suggestions Additionally the regulatory need and actions for improving the economic and quality of plastic recycling curbing microplastic littering and stakeholders researchers and recyclers challenges are reviewed comprehensively Priorities are identified to bridge the knowledge gaps for appropriate management of existing challenges Features Provides a comprehensive description of the fate and environmental impact of microplastics along with various characterization methods Overviews the interaction of microplastics with other toxic chemicals and further their transportation in environment Explains how microplastics enter in environment and its effect on biota and human health Analyses existing analytical techniques for characterization of microplastics Describes societal awareness related to use of plastic and discarding This book focusses on graduate students researchers in environmental engineering ecological engineering chemical and biological engineering plastics and material sciences engineering waste management materials science

Water Politics David L. Feldman, 2017-02-27 As the world faces another water crisis it is easy to understand why this precious and highly disputed resource could determine the fate of entire nations In reality however water conflicts rarely result in violence and more often lead to collaborative governance however precarious In this comprehensive and accessible text David Feldman introduces readers to the key issues debates and challenges in water politics today Its ten chapters explore the processes that determine how this unique resource captures our attention the sources of power that determine how we allocate use and protect it and the purposes that direct decisions over its cost availability and access Drawing on contemporary water controversies from every continent from Flint Michigan to Mumbai Sao Paulo and Beijing the book argues that cooperation and more equitable water management are imperative if the global

community is to adequately address water challenges and their associated risks particularly in the developing world While alternatives for enhancing water supply including waste water re use desalination and conservation abound without inclusive means of addressing citizens concerns their adoption faces severe hurdles that can impede cooperation and generate additional conflicts

Yearbook of International Organizations 2013-2014 (Volumes 1a-1b) Union Of International 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

The Ecology of Plant Chemistry and How It Drives Multi-Species Interactions Massuo J. Kato, Tara J. Massad, Mariana A. Stanton, Daniel G. Vassão, Lydia F. Yamaguchi, 2019-11-28

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

African Edible Insects As Alternative Source of Food, Oil, Protein and Bioactive Components Abdalbasit Adam Mariod, 2020-01-10 The harvesting processing and consumption of edible insects is one of the main keys to the sustainability of food chains on the African continent Insects are the largest and most successful group of animals on the planet and it is estimated that they comprise 80% of all animals This makes edible insects extremely important to the future survival of large populations across Africa and the world Insects offer a complete animal protein that includes all 9 essential amino acids and are very competitive with other protein sources They are also a good source of beneficial unsaturated fats and many insects have a perfect Omega 3 6 balance African Edible Insects As Alternative Source of Food Oil Protein and Bioactive Components comprehensively outlines the importance of edible insects as food and animal feed and the processing of insects in Africa The text also highlights indigenous knowledge of edible insects and shows the composition and nutritional value of these insects plus presents reviews of current research and developments in this rapidly expanding field All of the main types of edible insects are covered including their nutritional value chemical makeup and

harvesting and processing details The various preparation technologies are covered for each insect as are their individual sensory qualities and safety aspects A key aspect of this work is its focus on the role of insects in edible oils and gelatins Individual chapters focus on entomophagy in Africa and the various key aspects of the continent's growing edible insect consumption market As it becomes increasingly clear that the consumption of insects will play a major role in the sustainability of food chains in Africa this work can be used as a comprehensive and up to date singular source for researchers looking for a complete overview on this crucial topic *Small reservoirs in Africa: a review and synthesis to strengthen future investment* Saruchera, D.,Lautze, Jonathan,2019-11-04

Indigenous knowledge systems and climate change management in Africa Ajayi, O.C. (ed),Mafongoya, 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

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

Handbook of Research on Protecting and Managing Global Indigenous Knowledge Systems Tshifhumulo, Rendani,Makhanikhe, Tshimangadzo Justice,2021-10-08 Indigenous knowledge systems IKS are a combination of knowledge systems encompassing technology social economic and philosophical learning or educational legal and governance systems The lack of documentation of these systems presents a problem as the knowledge is fading away over time In response it is essential that policies and strategies are undertaken to ensure that these systems are protected and sustained for generations to come The Handbook of Research on Protecting and Managing Global Indigenous Knowledge Systems is a comprehensive reference source that works to preserve indigenous knowledge systems through research Focusing on key concepts such as tools of indigenous knowledge management and African indigenous symbols the book preserves and promotes indigenous knowledge through research and fills the void staff and students within the field of indigenous knowledge systems face with the current lack of research and resources This book

is ideal for university students lecturers researchers academicians policymakers historians sociologists and anyone interested in the field of indigenous knowledge systems 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 The Zoological Record , 1997

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