



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.

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Zimsec Chemistry Paper 1 November 2014

Benna, Umar G., Garba, Shaibu Bala



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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

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

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 *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 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 lcar 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 **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 **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 **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

The Zoological Record ,1997

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