## **ZIMSEC JUNE 2024**



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General Certificate of Education Ordinary Level

## BIOLOGY

PAPER 2

4025/2

2 hours

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# Section A part1 #1 to #3

## **Zimsec Science Paper June 2014**

**David Coniam, Peter Falvey** 

#### Zimsec Science Paper June 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 Masculinities under Neoliberalism Andrea Cornwall, Frank G. Karioris, Nancy Lindisfarne, 2016-05-15 Neoliberalism has had a radical impact on the lived gendered experiences of people around the world But while the gendered dimensions of neoliberalism have already received significant scholarly attention the existing literature has given little consideration to men s identities and experiences Building on the work of Cornwall and Lindisfarne s landmark text Dislocating Masculinity this collection provides a fresh perspective on gender dynamics under neoliberalism Bringing together a series of short readable case studies drawn from new ethnographic fieldwork its subjects range from the experiences of working class men in Putin's Russia to colonial masculinities in Southern Rhodesia and from young British Social-Ecological Systems (SES) Mohamed Behnassi, Himangana Muslim men to amateur footballers in Jamaica Gupta, Mahjoub El Haiba, Gopichandran Ramachandran, 2021-07-12 This book contributes to the multidisciplinary debate about social ecological systems SES within the perspective of rethinking the nature of interaction between these systems especially in the Anthropocene Era Most chapters either deliberate on risk dynamics threatening current SES or stimulate thought processes to manage such risks and related negative implications After analyzing the main drivers of SES vulnerability the book highlights the shifts to be made to enhance the sustainability and resilience of these systems mainly the integration and restructuring of governance frameworks the reorganization of production and consumption systems far from conventional models based on consumerism the elaboration of mitigation adaptation and SDGs implementation measures from a co benefit perspective and the consideration of appropriate approaches and paradigms while elaborating and implementing response mechanisms. This volume is relevant to researchers experts students practitioners and decision makers from different scales and spheres The Palgrave Encyclopedia of Imperialism and Anti-Imperialism Immanuel Ness, Zak Cope, 2016-04-29 The Palgrave Encyclopedia Imperialism and Anti Imperialism objectively presents the prominent themes epochal events theoretical explanations and historical accounts of imperialism from 1776 to the present It is the most historically and academically comprehensive examination of the subject to date Sustainable Development in Africa Walter Leal Filho, Rudi Pretorius, Luiza Olim de Sousa, 2021-07-09 This book serves the purpose of documenting and promoting African experiences on sustainable development which encompasses both formal and non formal education Sustainable development is very important to Africa but there is a paucity of publication which documents and promotes experiences

from African countries Due to their complexity the interrelations between social economic and political factors related to sustainable development especially at universities need to be better understood There is also a real need to showcase successful examples of how African institutions are handling their sustainability challenges It is against this background that this book has been produced It is a truly interdisciplinary publication useful to scholars social movements practitioners and members of governmental agencies and private companies undertaking research and or executing projects focusing on sustainability from across Africa As African nations strive to pursue the UN Sustainable Development Goals it is imperative to cater for the information needs seen across the continent and foster the dissemination of experiences and case studies which may support both on going and future efforts The scope of the book is deliberately kept wide and we are looking for contributions across the spectrum of sustainable development from business and economics to arts and fashion administration environment languages and media studies Infrastructures for Peace in Sub-Saharan Africa Mediel Hove.Geoff Harris, 2019-06-14 Cultures of violence are characteristic of many countries in sub Saharan Africa and attempts to move towards cultures of peace have often proved difficult and ineffectual And yet the wide variations in levels of violence within and between countries show that it is not inevitable rather it is the result of choices made at individual community and societal levels This book examines the potential of peace infrastructures as vehicles to strengthen and spread progress towards cultures of peace Peace infrastructures vary hugely in sophistication and level The examples examined in this book range from tiny structures which help resolve conflicts between individuals and within community organisations peace committees which serve local communities peace education and peace club programmes in schools mediation mechanisms to prevent election violence and to ministries of peace to coordinate government and non government efforts in peacemaking and peacebuilding The overall finding is that the development of peace infrastructures at all levels has great potential to build cultures of peace 1 It is the only book available which documents the experience and potential of nonviolence in post independence sub Saharan Africa 2 It makes a persuasive case for the development of various peace infrastructures in order to make peace sustainable 3 It explains how strategic planning can be utilised both to bring about change and to institutionalise it State Capacity, Economic Control, and Authoritarian Elections Merete Seeberg, 2018-03-09 Although the phenomenon of authoritarian elections has been a focal point for the literature on authoritarian institutions for more than a decade our understanding of the effect of authoritarian elections is still limited Combining evidence from cross national studies with studies on selected cases relying on recent field work this book suggests a solution to the paradox of authoritarian elections Rather than focusing on authoritarian elections as a uniform phenomenon it focuses on the differing conditions under which authoritarian elections occur It demonstrates that the capacities available to authoritarian rulers shape the effect of elections and high levels of state capacity and control over the economy increase the probability that authoritarian multi party elections will stabilize the regime Where these capacities are limited the regime is more likely to

succumb in the face of elections The findings imply that although multi party competition and state strength may be important prerequisites for democracy they can under some circumstances obstruct democratization by preventing the demise of dictatorships This text will be of key interest to scholars students and practitioners of democratization and to those who study autocracy and electoral authoritarianism as well as comparative politics more broadly Colonial Heritage, Memory and Sustainability in Africa Mawere, Munyaradzi, Mubaya, Tapuwa R., 2015-12-12 This book serves as a drive and medium for constructive analysis critical thinking and informed change in the broad area of cultural heritage studies In Africa how to overturn the gory effects and reverse the wholesale obnoxious and unpardonable losses suffered from the excruciating experience of colonialism in a manner that empowers the present and future generations remains a burning question Colonial and liberation war heritage have received insignificant attention. The relevance nature and politics at play when it comes to the role of memory and colonial heritage in view of nation building and sustainability on the continent is yet to receive careful practical and theoretical attention and scrutiny from both heritage scholars and governments Yet colonial heritage has vast potentials that if harnessed could reverse the gargantuan losses of colonialism and promote sustainable development in Africa The book critically reflects on the opportunities constraints and challenges of colonial heritage across Africa It draws empirical evidence from its focus on Zimbabwe South Africa Nigeria Ghana Zambia and Mozambique to advance the thesis that cultural heritage in Africa and in particular colonial heritage faces challenges of epic proportions that Journalism, Democracy, and Human Rights in Zimbabwe Bruce Mutsvairo, Cleophas T. require urgent attention Muneri, 2019-11-29 Journalism Democracy and Human Rights in Zimbabwe provides an empirical analysis of Zimbabwe s ongoing state of affairs Bruce Mutsvairo and Cleophas T Muneri examine the intersection between journalism democracy and human rights to historicize and critique past successes and failures that have played out in Zimbabwe's past as well as interrogate future challenges that await the nation s quest for democratization The authors examine what role citizen journalists human rights activists professional journalists and social media dissents could potentially play toward ending the country's current adversity Scholars of journalism media studies communication African studies and political science will find The Return of Food Tawodzera, Godfrey, Crush, Jonathan, 2016-06-14 The nadir of Zimbabwe this book particularly useful s political and economic crisis in 2008 coincided with the implementation of a baseline household food security survey in Harare by AFSUN This survey found that households in low income urban areas in Zimbabwe's capital were far worse off in terms of all the food insecurity and poverty indicators than households in the other 10 Southern African cities surveyed by AFSUN The central question addressed in this report is whether food security in Zimbabwe's urban centres has improved AFSUN conducted a follow up survey in 2012 that allows for direct longitudinal comparisons of continuity and change The status of household food security in low income neighbourhoods in Harare was improved in 2012 relative to 2008 and yet persistently high rates of severe food insecurity demonstrate that the daily need to access adequate food continued to be a

major challenge The key lesson for policymakers is that even in the context of overall economic improvement food insecurity remains endemic among the poorest segments of the urban population Households are already accustomed to drawing on resources outside of the formal economy and improvements in employment income have not reversed that trend These alternative livelihood strategies should therefore be considered as a normal part of urban life and supported with state resources that can improve access to food for the most marginalized groups Leading and Managing Open and Distance e-Learning (ODeL) Institutions in Africa Cuthbert Majoni, 2022-10-18 Leading and Managing Open and Distance E Learning ODeL Institutions in Africa focuses on e learning especially in developing countries in Africa The outbreak of COVID 19 has forced most educational institutions including conventional institutions in higher education to embrace e learning as a tool to ensure that education is not paralysed but continues to thrive However the major challenge has been shifting focus from the conventional face to face mode to the e learning mode This calls for a change of mindset and a review of practices to ensure success in implementing e learning This book has 12 chapters that explore the leadership theories and approaches that influence administrative practices in ODeL institutions as well as student support within library and information services the complexities of student affairs the inclusion of students with special needs the contemporary issues of innovation and industrialisation and effective marketing techniques for the survival and growth of tertiary institutions It is hoped that the recipients of this book can acquire the theoretical and practical knowledge relevant to the successful implementation of e learning Marginality, Migration and Education Winniefridah Matsa, 2020-12-21 This book provides a missing link between marginality migration and education in Zimbabwe focusing on the educational experiences of migrants children in an effort to influence government policies concerning migrant parents and their left behind children While there is a large body of knowledge on the education of children of immigrants in destination countries this book aims to fill in the gap by addressing the children who do not migrate with their parents Through this unique approach the book examines the education statuses of these left behind children offering insights into their educational challenges rights and inequities to better inform policy decisions to meet the 2030 education agenda for action established by the United Nations in 2015 The book will of interest and use to governments NGOs teachers and local communities in Africa as a resource to better understand the situation of migrants left behind children as a category of vulnerable children in difficult circumstances

Culture and Rural-Urban Revitalisation in South Africa Mziwoxolo Sirayi, Modimowabarwa Kanyane, Giulio Verdini, 2021-06-14 This book captures ground breaking attempts to utilise culture in territorial development and regeneration processes in the context of South Africa and our new normal brought by COVID 19 the fourth industrial revolution and climate change the world over The importance of culture in rural urban revitalisation has been underestimated in South Africa and the African continent at large Despite some cultural initiatives that are still at developmental stages in big cities such as Johannesburg eThekwini and Cape Town there is concern about the absence of

sustainable policies and plans to support culture creativity and indigenous knowledge at national and municipal levels Showcasing alternative strategies for making culture central to development this book discusses opportunities to shift culture and indigenous knowledge from the peripheries and place them at the epicentre of sustainable development and the mainstream of cultural planning which can then be applied in the contexts of Africa and the Global South Governmental institutions research councils civil society organisations private sector and higher education institutions come together in a joint effort to explain the nexus between culture economic development rural urban linkages grassroots and technological innovations Culture and Rural Urban Revitalization in South Africa is an ideal read for those interested in rural and urban planning cultural policy indigenous knowledge and smart rural village model African Indigenous Knowledge and the Sciences Gloria Emeagwali, Edward Shizha, 2016-07-08 This book is an intellectual journey into epistemology pedagogy physics architecture medicine and metallurgy The focus is on various dimensions of African Indigenous Knowledge AIK with an emphasis on the sciences an area that has been neglected in AIK discourse The authors provide diverse views and perspectives on African indigenous scientific and technological knowledge that can benefit a wide spectrum of academics scholars students development agents and policy makers in both governmental and non governmental organizations and enable critical and alternative analyses and possibilities for understanding science and technology in an African historical and contemporary context Disaster Risks and Hazards Rosemary Kasimba, Innocent Chirisa, 2025-07-18 This book discusses disaster risks and hazards as well as measures to increase people's resilience. The 21st Century has experienced a number of disasters that resulted in hampering socio economic development the loss of lives and property hence they are a threat to sustainable development Disaster risk management efforts and practices have failed to arrest the underlying drivers of increased global risk No country is immune to disaster risk thus resilience has become a critical component of disaster management It provides an opportunity to confront the social ecological foundations of disasters However it has been vaguely conceptualised and lacks a concrete approach to operationalization Some developing countries are gradually coming to realise that preparedness hazard mapping prediction risk and vulnerability assessment and planning are critical for increasing resilience and reducing losses following disasters A paradigm shift is required from reactionary to proactive measures in disaster management as the later focuses more on increasing the resilience of the community Zimbabwe s disaster management policy of 1979 is in the process of review following Cyclone Idai in March 2019 and the Corona Virus 19 COVID 19 Furthermore the consequences of climate change disaster are being felt with across the world particularly developing countries whose preparatory measures for such disasters are inadequate Disasters have become inevitable and no country is every country is vulnerable to them In the event of these disasters the vulnerable people are at risk and are affected more as majority of them are not able to cope In developed countries measures are in place to assist the vulnerable in the event that a disaster strikes However Zimbabwe being a developing country is not able to deal with unpredictable

disasters due to lack of resources hence the need for it to adopt mitigatory and transformative measures to reduce the Handbook of Research on Mixed Methods Research in Information Science impact of any form of disasters Ngulube, Patrick, 2021-11-26 Mixed methods research is becoming prevalent in many fields yet little has been done to elevate mixed methods research in information science A comprehensive picture of information science and its problems is needed to further understand and address the issues associated with it as well as how mixed methods research can be adapted and used The Handbook of Research on Mixed Methods Research in Information Science discusses the quality of mixed methods studies and methodological transparency sampling in mixed methods research and the application of theory in mixed methods research throughout various contexts Covering topics such as the issues and potential directions for further research in mixed methods this comprehensive major reference work is ideal for researchers policymakers academicians librarians practitioners instructors and students Handbook of Research on Theoretical Perspectives on Indigenous Knowledge Systems in Developing Countries Ngulube, Patrick, 2016-09-12 There has been a growth in the use acceptance and popularity of indigenous knowledge High rates of poverty and a widening economic divide is threatening the accessibility to western scientific knowledge in the developing world where many indigenous people live Consequently indigenous knowledge has become a potential source for sustainable development in the developing world. The Handbook of Research on Theoretical Perspectives on Indigenous Knowledge Systems in Developing Countries presents interdisciplinary research on knowledge management sharing and transfer among indigenous communities Providing a unique perspective on alternative knowledge systems this publication is a critical resource for sociologists anthropologists researchers and graduate level students in a variety of fields Cyclones in Southern Africa Godwell Nhamo, David Chikodzi, 2021-09-28 Tropical cyclones in Southern Africa also known as hurricanes or typhoons in other regions of the world is a hot subject for academic research This focus has been magnified by the need to consider tropical cyclones in the context of other global development agendas that includes the 2030 Agenda for Sustainable Development and its inseparable 17 Sustainable Development Goals SDGs the Paris Agreement the Sendai Framework for Disaster Risk Reduction and Habitat III s New Urban Agenda The ambitious SDGs challenge global and community leaders to make sure development addresses the nexus among poverty inequality and employment creation as well as care for the earth and its natural resources and biodiversity The SDGs further present an agenda to eradicate hunger bring quality education and sustain water and sanitation The infrastructure development human settlements sustainable consumption and production climate change biodiversity and the ocean blue economy agendas are also pitched Lastly the 2030 Agenda for Sustainable Development encourages partnerships on delivering various programmes and projects at all spatial levels However as tropical cyclones continue to make multiple landfalls and ravage Southern Africa and other parts of the world the achievement of the 2030 Agenda for Sustainable Development is threatened To this end this book addresses this gap by documenting the implications of tropical cyclones drawing examples and case

studies from recent tropical cyclones such as cyclone Idai and cyclone Kenneth that resulted in catastrophic impacts in 2019 The book comes as part of a series with three volumes The other volumes include Cyclones in Southern Africa Vol 1 Interfacing the Catastrophic Impact of Cyclone Idai with SDGs in Zimbabwe and Cyclones in Southern Africa Vol 2 Foundational and Fundamental Topics Given the foregoing the book is suitable as a read for several professionals and disciplines such as tourism and hospitality studies economics sustainable development development studies environmental sciences arts geography life sciences politics planning and public health Mining Africa Warikandwa, Tapiwa V.,2017-05-01 This book is a pacesetter in matters of mining and the environment in Africa from multidisciplinary and spatio temporal perspectives The book approaches mining from the perspectives of law politics archaeology anthropology African studies geography human ecology sociology history economics and development It interrogates mining and environment from the perspectives of customary law as well as from the perspectives of Euro modern laws In this sense the book straddles precolonial colonial and postcolonial mining and environmental perspectives In all this it maintains a Pan Africanist perspective that also speaks to contemporary debates on African Renaissance and to the unity of Africa From scrutinising the lived realities of African miners who are often insensitively and unjustly addressed as illegal miners the book also interrogates transnational mining corporations matters of corporate social responsibility as well as matters of tax evasions by transnational corporations whose commitment to accountability to African governments is guestioned With both theoretical chapters and chapter based on empirical studies on mining and the environment across the African continent the book provides a much needed holistic one stop shop for scholars activists researchers and policy makers who need a comprehensive treatise on African mining and the environment The book comes at the right time when matters of African mining and environment are increasingly coming to the fore in the light of discourses about the new 21st century scramble for African resources in which big transnational corporations and nations are jostling to suck Africa dry in their race to control planetary resources It is a book that speaks to contemporary broader issues of de coloniality and transformation of African minds and African environmental resources When Business Harms Human Rights Karen Erica Bravo, Jena Martin, Tara L. Van Ho, 2020-04-20 When Business Harms Human Rights uses reported narrations to discuss and analyze the experiences of individuals and communities from around the world and examines the impact that business activities has had on their lives The volume is situated within the broader subject area of business and human rights and uses various methodologies to share the perspectives of affected individuals and communities The narratives collected here follow rights holders in their attempts to secure remedies and examine the impact of the emerging legal regime of business and human rights

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