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# **ZIMBABWE SCHOOL EXAMINATIONS COUNCIL**

General Certificate of Education Ordinary Level

## **INTEGRATED SCIENCE**

**5006/3**

PAPER 3 Alternative to Practical

JUNE 2017 SESSION

1 hour

Candidates answer on the question paper

Additional materials:

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Mathematical tables/calculator (optional)

Soft clean eraser

Ruler (cm/mm)

Allow candidates 5 minutes to count pages before the examination.

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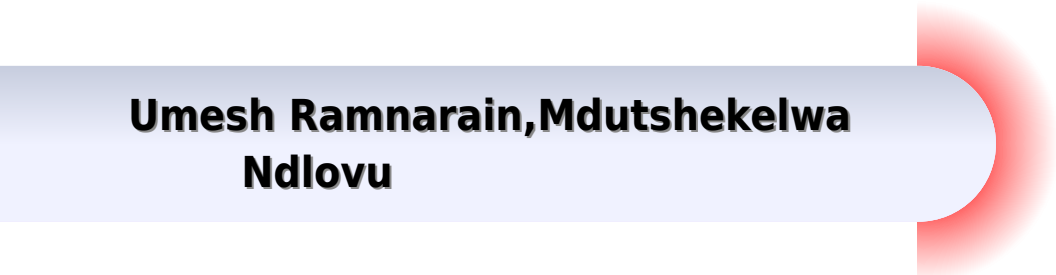
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[Turn over

# Zimsec Integrated Science Paper 3 2014

**Umesh Ramnarain, Mdutshekelwa  
Ndlovu**



### **Zimsec Integrated Science Paper 3 2014:**

#### **Irrigation suitability mapping examples from Zimbabwe, Zambia, Malawi and Kenya** Mabhaudhi,

Tafadzwanashe, Haileslassie, Amare, Magidi, J., Nhamo, L., 2022-12-01 The irrigation suitability classification was achieved by using physical factors that include slope rainfall land use closeness to water bodies surface and groundwater and soil characteristics for selected districts in Zimbabwe Zambia Malawi and Kenya some of the UN target countries As cereals form the main food basket of the selected countries and cereals are not tolerant to saline conditions the report also provides maps showing high soil salinity areas of Makueni and Nakuru of Kenya where soils are highly saline However soil salinity is insignificant in the other study districts and therefore not mapped This report provides a conceptual framework and detailed methodology for irrigation suitability mapping including details of identified boundary maps and geospatial data and a synthesis model and maps on irrigation suitability mapping for the selected districts in the four target countries

#### *Information and Communications Technology in STEM Education* Umesh Ramnarain, Mdutshekwa Ndlovu, 2023-07-21

This timely book presents the latest scholarly research on the integration of Information Communications Technology ICT for enhanced STEM education in African schools and universities Featuring critical discussion and illustration of key data led arguments this volume gives a comprehensive picture of the breadth complexity and diversity of issues present in different African countries It highlights a diverse range of topics such as approaches to ICT integration the use of digital technologies to support inquiry based learning teacher development and contextual issues in ICT integration for STEM education Chapters feature contributions and shared experiences from prominent science educators and researchers from across African regions and demonstrate findings and reflections on emerging trends pedagogical innovations and research informed practices on ICT integration in STEM education Offering cutting edge research on STEM and digital education in Africa the book will appeal to researchers postgraduate students and scholars in the fields of STEM education ICT education digital education and pedagogy

#### **Water Science and Sustainability** Bindhy Wasini Pandey, Subhash Anand, 2021-04-10 This book

describes the importance of water resources for socio economic and ecological development including geomorphic and ecological environments Hence conservation management and development of water resources have become necessary for the all around development of global populations and the environment It is the outcome of valuable contributions made by eminent scientists and research scholars who have developed alternative strategies solutions and models for sustainable water resources through research monitoring and experiments varying from regional to global scale This book is of immense use to the policymakers environmentalists ecologists academician research scholars and people in general concerned with water resources management

*Integrated management of the Fall Armyworm on maize* Food and Agriculture Organization of the United Nations, 2018-07-02 Fall armyworm *Spodoptera frugiperda* FAW a dangerous transboundary pest native to the Americas has been spreading rapidly to all sub regions of Africa since 2016 causing significant yield losses to crops Farmer

education and community action are critical elements in the strategy to best manage FAW populations using an integrated and ecological pest management approach Farmer Field School FFS a holistic farmer education approach used in over 90 countries will be a key component of the response effort This guide seeks to provide guidance on how to conduct FFS on the integrated and sustainable management of the FAW in Africa with emphasis on maize as FAW s preferred host plant It provides information on the biology and ecology of FAW field studies and exercises for use in season long FFS and suggestions on how to build a training programme for rural advisory services extension on FAW and FFS refresher courses of Master Trainers and Facilitators Handbook of Research on Connecting Research Methods for Information Science

Research Ngulube, Patrick,2019-12-13 In today s globalized world viable and reliable research is fundamental for the development of information Innovative methods of research have begun to shed light on notable issues and concerns that affect the advancement of knowledge within information science Building on previous literature and exploring these new research techniques are necessary to understand the future of information and knowledge The Handbook of Research on Connecting Research Methods for Information Science Research is a collection of innovative research on the methods and application of study methods within library and information science While highlighting topics including data management philosophical foundations and quantitative methodology this book is ideally designed for librarians information science professionals policymakers advanced level students researchers and academicians seeking current research on transformative methods of research within information science **Learning and Collaboration Technologies. Designing**

**Learning Experiences** Panayiotis Zaphiris,Andri Ioannou,2019-07-10 This two volume set LNCS 11590 and 11591 constitutes the refereed proceedings of the 6th International Conference on Learning and Collaboration Technologies LCT 2019 held as part of the 21st International Conference on Human Computer Interaction HCII 2019 in Orlando FL USA in July 2019 The 1274 full papers and 209 posters presented at the HCII 2019 conferences were carefully reviewed and selected from 5029 submissions The papers cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of applications areas The papers in this volume are organized in the following topical sections designing and evaluating learning experiences theoretical and pedagogical approaches in technology enhanced learning cognitive and psychological issues in learning and technology in STEM education Save and Grow in practice: maize, rice, wheat Food and Agriculture Organization of the United Nations,2018-06-21 FAO s best selling 2011 publication Save and Grow proposed a new paradigm of agriculture one that is both highly productive and environmentally sustainable This new book looks at the application of Save and Grow practices and technologies to production of the world s key food security crops maize rice and wheat With examples drawn from developing countries worldwide it shows how eco friendly farming systems are helping smallholder producers to boost cereal yields improve their incomes and livelihoods conserve natural resources reduce negative impacts on the environment and build resilience to

climate change The book will be a valuable reference for policymakers and development practitioners guiding the transition to sustainable food and agriculture

**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

**Multi-Hazard Early Warning and Disaster Risks** Dilanthi Amaratunga, Richard Haigh, Nuwan Dias, 2021-09-11 This book presents a collection of papers under the theme of multi hazard early warning and disaster risks These were selected from the presentations made at the International Symposium on Tsunami and Multi Hazard Risks Early Warning and Community Awareness in supporting implementation of the Sendai Framework for Disaster Risk Reduction 2015 2030 This conference aimed to recognize achievements and to highlight work that still needs to be carried out The conference promoted collaboration among academia research institutions and disaster management offices and further encouraged multidisciplinary and multi sectoral interaction This International Symposium on Multi Hazard Early Warning and Disaster Risk Reduction provided an important opportunity to reflect upon our progress to date in tackling disaster risk but also to consider some of the challenges and opportunities that lay ahead of us A particular focus of this event was Multi Hazard Early Warning During the negotiations for the Sendai Framework countries and partners highlighted the need to

- 1 Continue to invest in develop maintain and strengthen people centred end to end early warning systems
- 2 Promote the application of simple and low cost early warning equipment and facilities
- 3 Broaden the dissemination channels for early warning information to facilitate early action

Countries also called for the further development of and investment in effective nationally compatible regional multi hazard early warning mechanisms To address these needs global Target g of the Sendai Framework was adopted namely to substantially increase the availability of and access to multi hazard early warning systems and disaster risk information and assessments to the people by 2030 As illustrated by recent events in Indonesia it is also vital to address the challenge of cascading hazards that pose a tsunami risk and the importance of linking tsunami early warning to a multi hazard environment However moving towards a multi hazard environment is complex and poses many challenges but can bring significant benefits in terms of efficiencies and also in recognising the links between hazards such as cascading threats We very much hope that this book will provide an important platform to address these and other

challenges in addressing disaster risk as well as supporting implementation of the Sendai Framework for Disaster Risk Reduction     The Delusion of Knowledge Transfer Susanne Koch,Peter Weingart,2016-12-13 With the rise of the knowledge for development paradigm expert advice has become a prime instrument of foreign aid At the same time it has been object of repeated criticism the chronic failure of technical assistance a notion under which advice is commonly subsumed has been documented in a host of studies Nonetheless international organisations continue to send advisors promising to increase the effectiveness of expert support if their technocratic recommendations are taken up This book reveals fundamental problems of expert advice in the context of aid that concern issues of power and legitimacy rather than merely flaws of implementation Based on empirical evidence from South Africa and Tanzania the authors show that aid related advisory processes are inevitably obstructed by colliding interests political pressures and hierarchical relations that impede knowledge transfer and mutual learning As a result recipient governments find themselves caught in a perpetual cycle of dependency continuously advised by experts who convey the shifting paradigms and agendas of their respective donor governments For young democracies the persistent presence of external actors is hazardous ultimately it poses a threat to the legitimacy of their governments if their policy making becomes more responsive to foreign demands than to the preferences and needs of their citizens     Effective Mentoring and Supervision for Best Practices Costain Tandzi,Munyaradzi Mawere,Wilson Zivave,Pedzisai Goronga,Annah Moyo,2025-07-17 This volume offers a profound exploration of mentorship within Zimbabwe s educational framework emphasising the crucial phase of work integrated learning It assembles the insights of distinguished educators researchers and practitioners committed to enhancing teacher training through effective mentorship and supervision Through thoughtfully crafted chapters the book examines best practices in mentorship underscoring the significance of robust teacher student relationships culturally responsive pedagogy teamwork and the synthesis of theoretical knowledge with practical application Each chapter delves into essential elements of effective supervision such as building trust providing constructive feedback and fostering an inclusive teaching learning environment that honours diverse cultural contexts The book provides valuable strategies to boost student engagement enhance instructional effectiveness and encourage reflective practice among emerging educators Additionally the volume presents innovative approaches for immersing trainee teachers in meaningful hands on experiences that connect classroom learning with real world application Featuring contributions from a diverse array of voices in the field this book serves as an indispensable resource for teacher trainees mentor teachers educational leaders and policymakers Its goal is to equip those involved in teacher training with the skills necessary to cultivate the next generation of educators thereby improving the quality of education throughout Zimbabwe More than a guide this volume is a clarion call for transformative mentorship that acknowledges the significant impact of effective supervision on the future of teaching and learning     **Migration Vulnerability** Marius Olivier,Avinash Govindjee,Evance Kalula,2024-09-10 This title explores the urgent and often overlooked issue of social protection for migrant

workers focusing on Africa's rapidly evolving migration landscape. As international labour migration continues to surge due to both push and pull factors, this book delves into the social protection deficits experienced by three key migrant groups: high skilled professionals, informal economy workers, and those impacted by climate change. Organised into 15 insightful chapters, the book offers a cross-disciplinary examination of these challenges, drawing on perspectives from law, economics, social development, and environmental studies. By highlighting the limited access to social security benefits faced by these groups, it presents a compelling case for the need for robust policy interventions. This authoritative volume not only fills a critical gap in this research but also serves as a vital resource for policymakers, researchers, and practitioners dedicated to improving the welfare and security of migrants in Africa and beyond.

### **The Routledge Handbook of Grassroots Climate Activism**

Sabine von Mering, Thomas E. Bell, Alexandre da Silva Faustino, Wendy Steele, Ann Ward, Mariana Arjona Soberón, 2024-12-19. The Routledge Handbook of Grassroots Climate Activism introduces contemporary forms of grassroots climate activism from around the world through the lenses of a variety of academic disciplines, methodologies, and perspectives. Focusing on bottom up case studies, it showcases innovative and creative approaches as well as the knowledge of those working towards swift decarbonisation, just transitions, and climate justice. Grassroots climate activism presents a rich body of material to be studied not only by anthropologists, sociologists, geographers, and political scientists but also by scholars in the humanities and the creative arts. This timely handbook explores climate activism across six continents and provides perspectives from climate activists themselves. The authors interrogate a range of key questions: what forms of mobilisation, organisation, and practice constitute grassroots climate activism and how have these changed over the last decade? What are the boundaries of the climate movement and how does it interact with or differ from other social movements? How do activists engage with the moral dimensions of the climate crisis? How do grassroots engagements with climate struggles give shape to plural, site specific but nonetheless interconnected forms of climate activism? What tools do climate activists use to create functioning and effective local, national, and transnational networks? How has climate activism been impacted by the Covid-19 pandemic? What is the relationship between critical scholarship and climate activism? What methodologies are particularly effective for studying climate activism and why? This handbook aims to inspire others to devote more attention to grassroots climate activism. It brings together established and up and coming scholars, scholar activists, and practitioners who present novel, cutting edge research and new findings exploring current developments in different parts of the world. This book will be of particular interest to students and scholars of climate activism, climate solutions, climate and society, human environmental crises, grassroots activism, and social movements. It will also be of interest to practitioners involved in climate action and to all those who are ready to launch their own grassroots initiatives or support one of the many already underway.

### **Water**

**Policy and Governance in Canada** Steven Renzetti, Diane P. Dupont, 2016-10-31. This book provides an insightful and critical assessment of the state of Canadian water governance and policy. It adopts a multidisciplinary variety of perspectives

and considers local basin provincial and national scales Canada's leading authorities from the social sciences life and natural sciences address pressing water issues in a non technical language making them accessible to a wide audience Even though Canada is seen as a water rich country with 7% of the world's reliable flow of freshwater and many of the world's largest rivers the country nevertheless faces a number of significant water related challenges stemming in part from supply demand imbalances but also a range of water quality issues Against the backdrop of a water policy landscape that has changed significantly in recent years this book therefore seeks to examine water related issues that are not only important for the future of Canadian water management but also provide insights into transboundary management non market valuation of water decentralized governance methods the growing importance of the role of First Nations peoples and other topics in water management that are vital to many jurisdictions globally The book also presents forward looking approaches such as resilience theory and geomatics to shed light on emerging water issues Researchers students and those directly involved in the management of Canadian waters will find this book a valuable source of insight In addition this book will appeal to policy analysts people concerned about Canadian water resources specifically as well as global water issues

**Enhancing Water and Food Security Through Improved Agricultural Water Productivity** Tafadzwanashe Mabhaudhi,Vimbayi G. P. Chimonyo,Aidan Senzanje,Pauline P. Chivenge,2025-05-14 This open access edited book provides a synthesis of knowledge on Water Productivity WP and its role in addressing global challenges related to water and food insecurity as well as climate change It explores how increasing WP can contribute to achieving several Sustainable Development Goals SDGs in the global South with a focus on SDG 2 6 and 12 The volume connects WP with emerging approaches such as the water energy food nexus sustainable food systems and the circular economy It features case studies critical analyses and meta analyses that bridge the science policy practice interface The book also delves into WP's relation to global priorities policies and the empowerment of vulnerable communities highlighting the non negotiable rights to water and food Governance policies and institutions are discussed in the context of enhancing WP in farmer led irrigation and scaling WP technologies The book also covers emerging methods for determining WP assessing linkages to nutrition health and well being and integrating climate change adaptation and mitigation strategies This is a guide for regional and international experts professionals and scholars interested in agricultural water management in the global south The book has the potential to inform multi regional and sectoral policies particularly in Africa and contribute to sustainable development through better resource management

**The Palgrave Encyclopedia of Urban and Regional Futures** Robert C. Brears,2023-01-13 While urban settlements are the drivers of the global economy and centres of learning culture and innovation and nations rely on competitive dynamic regions for their economic social and environmental objectives urban centres and regions face a myriad of challenges that impact the ways in which people live and work create wealth and interact and connect with places Rapid urbanisation is resulting in urban sprawl rising emissions urban poverty and high unemployment rates housing affordability issues lack of

urban investment low urban financial and governance capacities rising inequality and urban crimes environmental degradation increasing vulnerability to natural disasters and so forth At the regional level low employment low wage growth scarce financial resources climate change waste and pollution and rising urban peri urban competition etc are impacting the ability of regions to meet socio economic development goals while protecting biodiversity The response to these challenges has typically been the application of inadequate or piecemeal solutions often as a result of fragmented decision making and competing priorities with numerous economic environmental and social consequences In response there is a growing movement towards viewing cities and regions as complex and sociotechnical in nature with people and communities interacting with one another and with objects such as roads buildings transport links etc within a range of urban and regional settings or contexts This comprehensive MRW will provide readers with expert interdisciplinary knowledge on how urban centres and regions in locations of varying climates lifestyles income levels and stages development are creating synergies and reducing trade offs in the development of resilient resource efficient environmentally friendly liveable socially equitable integrated and technology enabled centres and regions

*Construction Project Monitoring and Evaluation*  
Callistus Tengan, Clinton Aigbavboa, Wellington Didibhuku Thwala, 2021-04-26 This book will provide readers with an in depth theoretical awareness and practical guidance on the implementation of an effective monitoring and evaluation M E system to ensure construction projects meet approved quality cost time and social sustainability objectives The authors discuss the drivers challenges determinants and benefits of effective M E implementation together with the theories and models underpinning construction project M E practices Further a comparative overview of M E practices in developed and developing countries is presented to elucidate the best practices The book first conceptualizes M E as a five factor model comprising stakeholder involvement budgetary allocation and logistics technical capacity and training leadership and communication It then presents an M E case study on the Ghanaian construction industry before expanding on the idea of M E systems as an effective tool for project performance and in optimizing a project s contribution to society and the environment The book further provides guidance on M E practice for construction project managers investors professionals researchers and other stakeholders and is therefore of interest to those in architecture construction engineering planning project management and development studies

*Achievements and Challenges of Integrated River Basin Management*  
Dejan Komatina, 2018-07-25 Integrated river basin management is an approach focusing on the development and management of land and water resources in a coordinated manner with the primary aim to ensure society development which is well balanced from the environmental economic and social points of view It is a complex approach including all aspects of water resource management water and aquatic ecosystem protection disaster management and water use and covering a wide range of disciplines e g hydrology ecology environmental management and economy cross cutting issues climate change data sharing and stakeholder involvement and approaches river basin management plans preparation water food energy

ecosystems nexus assessment science policy integration and transboundary cooperation This book provides a comprehensive overview of achievements and challenges associated with the implementation of the approach throughout the world

*Handbook of Water Resources Management: Discourses, Concepts and Examples* Janos J. Bogardi, Joyeeta Gupta, K. D. Wasantha Nandalal, Léna Salamé, Ronald R.P. van Nooijen, Navneet Kumar, Tawatchai Tingsanchali, Anik Bhaduri, Alla G. Kolechkina, 2021-06-12 This book provides an overview of facts theories and methods from hydrology geology geophysics law ethics economics ecology engineering sociology diplomacy and many other disciplines with relevance for concepts and practice of water resources management It provides comprehensive but also critical reading material for all communities involved in the ongoing water discourses and debates The book refers to case studies in the form of boxes sections or as entire chapters They illustrate success stories but also lessons to be remembered to avoid repeating the same mistakes Based on consolidated state of the art knowledge it has been conceived and written to attract a multidisciplinary audience The aim of this handbook is to facilitate understanding between the participants of the international water discourse and multi level decision making processes Knowing more about water but also about concepts methods and aspirations of different professional disciplinary communities and stakeholders professionalizes the debate and enhances the decision making

Flows and Practices Lyla Mehta, Bill Derman, 2017-05-19 For the past two decades Integrated Water Resources Management IWRM has been the dominant paradigm in water resources This book explores how ideas of IWRM are being translated and adapted in Mozambique South Africa Tanzania Uganda and Zimbabwe Grounded in social science theory and research it highlights the importance of politics history and culture in shaping water management practices and reform and demonstrates how Africa has clearly been a laboratory for IWRM While a new cadre of professionals made IWRM their mission we show that poor women and men may not have always benefitted In some cases IWRM has also offered a distraction from more critical issues such as water and land grabs privatisation the negative impacts of water permits and a range of institutional ambiguities that prevent water allocations to small and poor water users By critically examining the interpretations and challenges of IWRM the book contributes to improving water policies and practices and making them more locally appropriate in Africa and beyond

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