



ZIMBABWE SCHOOL EXAMINATIONS COUNCIL
General Certificate of Education Advanced Level

FURTHER MATHEMATICS
PAPER 2

9187/2

NOVEMBER 2013 SESSION

3 hours

Additional materials:
Answer paper
Graph paper
List of Formulae

TIME 3 hours

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

There is no restriction on the number of questions which you may attempt.

If a numerical answer cannot be given exactly, and the accuracy required is not specified in the question, then in the case of an angle it should be given to the nearest degree, and in other cases it should be given correct to 2 significant figures.

If a numerical value for g is necessary, take $g = 9.81 \text{ ms}^{-2}$.

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

The total number of marks for this paper is 120.

Within each section of the paper, questions are printed in the order of their mark allocations and candidates are advised, within each section, to attempt questions sequentially.

The use of an electronic calculator is expected, where appropriate.

You are reminded of the need for clear presentation in your answers.

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November 2013 Zimsec Paper Mathematics

Femi S. Otulaja, Meshach B. Ogunniyi



November 2013 Zimsec Paper Mathematics:

Decolonising Science, Technology, Engineering and Mathematics (STEM) in an Age of Technocolonialism

Nhemachena, Artwell, Hlabangane, Nokuthula, Matowanyika, Joseph Z. Z., 2020-03-02

Positing the notions of coloniality of ignorance and geopolitics of ignorance as central to coloniality and colonisation this book examines how colonialists socially produced ignorance among colonised indigenous peoples so as to render them docile and manageable. Dismissing colonial descriptions of indigenous people as savages, illiterate, irrational, prelogical, mystical, primitive, barbaric and backward, the book argues that imperialists/colonialists contrived geopolitics of ignorance wherein indigenous regions were forced to become ignorant, hence containable and manageable in the imperial world. Questioning the provenance of modernist epistemologies, the book asks why Eurocentric scholars only contest the provenance of indigenous knowledges, artefacts and scientific collections. Interrogating why empire sponsors the decolonisation of universities' epistemologies in indigenous territories while resisting the repatriation/restitution of indigenous artefacts, the book also wonders why Westerners who still retain indigenous artefacts, skulls and skeletons in their museums, universities and private collections do not consider such artefacts and skulls to be colonising them as well. The book is valuable to scholars and activists in the fields of anthropology, museums and heritage studies, science and technology studies, decoloniality, policymaking, education, politics, sociology and development studies.

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.

DMRC Exam for Jr. Engineer (Electrical) Guide + Workbook (10 Practice Sets) Paper I & II 2nd edition Disha Experts, 2017-09-01

The THOROUGHLY REVISED/UPDATED 2nd edition of the book DMRC Exam Paper 1 & 2 for Jr Engineer Electrical Guide Workbook 10 Practice Sets 2nd edition has been specially designed to help students in the latest DMRC exam being conducted by DMRC. The book contains Quick Concept Review of the General Ability Test in 2 parts: Aptitude and Electrical Engineering. The Quick Concept Review is followed by a short exercise with solutions. The book also provides 2 Solved past papers of 2012/2013 to guide you about the pattern and the level of questions asked. The book provides 10 Practice Sets, Paper 1 and 2, as per the LATEST pattern of DMRC Electrical Engineering exam. The solutions of the 10 Practice Sets are provided immediately at the end of each Set. The questions have been carefully selected so as to give you a real feel of the exam. Each Practice Set is classified into 2 papers: Paper I is an Objective Test containing General Ability section and Electrical Engineering section. The General Ability section has 60 questions on General Awareness, Logical Ability and Quantitative Aptitude. The Electrical Engineering section has 60 questions on the knowledge of the Electrical

Engineering discipline trade The Paper II consists of an objective test of English language of 60 questions Two fully solved past papers of 2012 2013 have been provided It is our confidence that if you attempt each of the tests with sincerity your score must improve at least by 10 15% The book also provides Response Sheet for each objective test Post each test you must do a Post Test Analysis with the help of the Test Analysis Feedback Sheet which has been provided for each Set *The World of Science Education* Femi S. Otulaja, Meshach B. Ogunniyi, 2017-09-12 Each volume in the 7 volume series The World of Science Education reviews research in a key region of the world These regions include North America South and Latin America Asia Australia and New Zealand Europe and Israel North Africa and the Middle East and Sub Saharan Africa The focus of this Handbook is on research in science education in mostly former British colonies in Sub Saharan Africa and the scholarship that most closely support this program The reviews of the research situate what has been accomplished within a given field in Sub Saharan Africa rather than an international context The purpose therefore is to articulate and exhibit regional networks and trends that produced specific forms of science education The thrust lies in identifying the roots of research programs and sketching trajectories focusing the changing face of problems and solutions within regional contexts The approach allows readers to review what has been done and accomplished what is missing and what might be done next

The African Mother Tongue and Mathematical Ideas Abdul Karim Bangura, 2020-06-02 This book by renowned scholar Dr Abdul Karim Bangura combines linguistics and mathematics to show how and why African centred mathematical ideas can be a driving force in Africa's development efforts Bangura explores the concept that Africa has been the centre of the History of Mathematics for thousands of years as the civilizations that emerged across the continent developed contributions which would enrich both ancient and modern understanding of nature through mathematics However scholars and other professionals working in the field of mathematics education in Africa have identified a plethora of issues in carrying out their tasks This is highlighted by one of the most compelling arguments in the book which is that a major reason for these problems is the fact that the African mother tongues has been greatly neglected in the teaching of mathematics in the continent Bangura asserts that a change has to be made in order for Africa to benefit from the exceptional opportunities mathematics offer showing that even if there is a great body of work connecting linguistics and mathematics few analyses have been performed on the link between African languages and mathematics and the ones that have been made are not theoretically grounded on linguistics Thus the book begins by identifying the objects of study of linguistics and mathematics and delineates which ones they have in common Next since the object of study of linguistics is language the nine design features of language are employed to examine each of the objects as it pertains to African languages After that mathematical ideas of sustainability and those of tipping points are suggested as means to help Africa's development efforts

19 Previous Year NDA/ NA Mathematics, English & General Knowledge Topic-wise Solved Papers (2006 - 2023) - set of 2 Books - 9th Edition | 35 Authentic Papers | 9450 MCQs Disha Experts, 2024-10-22 The

9th updated edition of the Combo set of 2 Books 19 Previous Year NDA NA English General Knowledge Mathematics Topic wise Solved Papers 2006 2024 contains 37 Question papers of Mathematics held from April 2006 to September 2024 The complete syllabus of NDA NA is divided into 56 Topics Mathematics 24 Topics English 8 Topics General Knowledge 24 Topics The Book consists of more than 9990 MCQs Mathematics 4440 MCQs English 1850 MCQs General Knowledge 3700 MCQs distributed among 56 Topics The strength of the book lies in the originality of its question papers and Errorless Solutions The Book provides detailed step by step solutions to provide 100% concept clarity to the students **Information and**

Communications Technology in STEM Education Umesh Ramnarain,Mdutshekelwa 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 *The Routledge International Handbook of Educational Effectiveness and Improvement* Christopher

Chapman,Daniel Muijs,David Reynolds,Pam Sammons,Charles Teddlie,2015-08-14 The International Handbook of Educational Effectiveness and Improvement draws together leading academics and researchers in the field to reflect on the history traditions and the most recent developments in this dynamic and influential field This handbook provides a comprehensive overview of the foundations of the field the evolution of educational effectiveness theory and methodology the links with other research disciplines the links between policy and practice In conclusion the handbook sets out a new agenda for future educational effectiveness research This handbook is an essential resource for those interested in the effectiveness of educational systems organisations and classrooms It offers academics researchers students and policy makers new insights into the latest thinking and evidence about educational effectiveness **African Governance Report III 2013**

,2013 The African Governance Report the most comprehensive report on governance in Africa assesses and monitors the progress of African countries on governance identifies capacity gaps in governance institutions and proposes policies and strategic interventions to improve governance on the continent This third edition of the Report while continuing to monitor governance trends adopts a thematic approach elections and the management of diversity in Africa Elections are central to democratic governance and the political management of diversity in plural societies While elections are held with greater

regularity in Africa their content and quality remains suspect in many countries with Africa's rich diversity deployed as a combustible tool in electoral conflicts Elections have often triggered conflict with violence tensions acrimony and sharp elite divisions surrounding electoral processes and outcomes a worrying trend for Africa's democratic future The Report investigates elections in the face of managing diversity in Africa It recommends major electoral institutional political and constitutional reforms to enable elections to facilitate the democratic management of diversity while significantly improving their quality and credibility These include reform of the party system to make it more inclusive and democratic a move to more proportional electoral systems and an increase in the autonomy and effectiveness of election management boards The Report argues that regional and subregional initiatives and frameworks for elections democracy and governance have to be implemented and monitored to improve electoral performance and promote democratic consolidation and stability Page 4 of cover

e-Infrastructure and e-Services for Developing Countries Karl Jonas, Idris A. Rai, Maurice Tchente, 2013-10-17 This book constitutes the thoroughly refereed post conference proceedings of the 4th International ICST Conference on e-Infrastructure and e-Services for Developing Countries AFRICOMM 2012 held in Yaounde Cameroon in November 2012 The 24 revised full papers presented were carefully reviewed and selected from numerous submissions The papers cover a wide range of topics in the field of information and communication infrastructures and are grouped in topical sections on e-Infrastructure e-Services e-Society e-Health and e-Security

Handbook of Research on Politics in the Computer Age Solo, Ashu M. G., 2019-08-30 Technology and particularly the Internet have caused many changes in the realm of politics Aspects of engineering computer science mathematics or natural science can be applied to politics Politicians and candidates use their own websites and social network profiles to get their message out Revolutions in many countries in the Middle East and North Africa have started in large part due to social networking websites such as Facebook and Twitter Social networking has also played a role in protests and riots in numerous countries The mainstream media no longer has a monopoly on political commentary as anybody can set up a blog or post a video online Now political activists can network together online The Handbook of Research on Politics in the Computer Age is a pivotal reference source that serves to increase the understanding of methods for politics in the computer age the effectiveness of these methods and tools for analyzing these methods The book includes research chapters on different aspects of politics with information technology engineering computer science or math from 27 researchers at 20 universities and research organizations in Belgium Brazil Cape Verde Egypt Finland France Hungary Italy Mexico Nigeria Norway Portugal and the United States of America Highlighting topics such as online campaigning and fake news the prospective audience includes but is not limited to researchers political and public policy analysts political scientists engineers computer scientists political campaign managers and staff politicians and their staff political operatives professors students and individuals working in the fields of politics e-politics e-government new media and communication studies and Internet marketing

African Public Theology Sunday

Bobai Agang, Dion A. Forster, H. Jurgens Hendriks, 2020-04-30 Africa needs leaders and Christians from every walk of life to rediscover their identity and purpose in all spheres of society African Public Theology sounds a clarion call to accomplish this vital task God created all humans equally intending for us to live in community and take responsibility for the world around us a mandate we need to act on Through faithful application of Scripture to contexts common in the continent today contributors from across Africa join as one to present a vision for the Africa that God intended No simplistic solutions are offered instead African Public Theology challenges every reader to think through the application of biblical principles in their own community place of work and sphere of influence If we heed the principles and lessons that God's word has for society culture and public life then countries across Africa can have hope of a future that is free from corruption and self promotion and is instead characterized by collective stewardship and servant hearted leadership

Accountability in education: meeting our commitments UNESCO, 2017-10-30 The second edition of the Global Education Monitoring Report GEM Report presents the latest evidence on global progress towards the education targets of the UN Sustainable Development Goals With hundreds of millions of people still not going to school and many not achieving minimum skills at school it is clear education systems are off track to achieve global goals The marginalized currently bear the most consequences but also stand to benefit the most if policy makers pay sufficient attention to their needs Faced with these challenges along with tight budgets and increased emphasis on results oriented value for money countries are searching for solutions Increased accountability often tops the list The 2017 8 GEM Report shows the entire array of approaches to accountability in education It ranges from countries unused to the concept where violations of the right to education go unchallenged to countries where accountability has become an end in itself instead of a means to inclusive equitable and high quality education and lifelong learning for all The report emphasizes that education is a shared responsibility While governments have primary responsibility all actors schools teachers parents students international organizations private sector providers civil society and the media 0 3 have a role in improving education systems The report emphasized the importance of transparency and availability of information but urges caution in how data are used It makes the case for avoiding accountability systems with a disproportionate focus on narrowly defined results and punitive sanctions In an era of multiple accountability tools the report provides clear evidence on those that are working and those that are not Back cover

Global Ideologies Surrounding Children's Rights and Social Justice Tshabangu, Icarbord, 2017-06-19 Social rights are a pivotal concern for all of society including today's population of children The study of the rights or lack thereof that children have must be undertaken to ensure that future generations are thriving members of their communities Global Ideologies Surrounding Children's Rights and Social Justice highlights the trials and tribulations that children have often had to overcome to be considered true citizens of their communities Featuring comprehensive coverage on a wide range of applicable topics such as child abuse socio economic rights social injustice and welfare issues this is a critical reference source for educators academicians students and

researchers interested in studying new approaches for the social advancement of children *ICT-Supported Innovations in Small Countries and Developing Regions* Ian A. Lubin, 2017-10-11 This timely analysis brings greater clarity to the question of how ICT supported innovations are experienced in small low to middle income countries and developing regions with implications for international education and development By bringing together a group of international technologists researchers and scholars this book explores the building of local capacity for educational technology policy and application in such regions and ably links theory to practice to illuminate how the issues at hand play out in professional practice The volume offers itself as an invaluable resource by offering a salient assessment of the existent methodological and ecological challenges and constraints in developing implementing and evaluating technology and technology research while simultaneously providing recommendations and strategy for future policy and implementation Among the topics covered The research agenda for technology education and development ICT curriculum planning and development policy and implementation lessons from small developing states New challenges for ICT in education policies in developing countries Playful partnerships for game based learning in international contexts Addressing persistent ICT in education challenges in small developing countries ICT Supported Innovations in Small Countries and Developing Regions is of significant interest to educational technology researchers policymakers and officials with influence over resource allocation and implementation of technology innovations It is also relevant to administrators teachers instructional designers and technology evaluators interested in advancing educational communications and technology in public and private settings *Local Knowledge for a Globalized World (Penerbit USM)* Norizan Esa, Salasiah Che Lah, Local knowledge refers to knowledge and expertise which originate from local and indigenous cultures that have developed over time Its practices have been absorbed naturally and effortlessly into the local communities However due to globalization and modernization much of this knowledge has not been practiced and will be lost in time if efforts are not taken to preserve conserve and transfer it to the community Through the discussion of six articles written based on local and international research findings this book brings together researchers committed to local knowledge in sharing the process of documentation on local knowledge transfer issues and challenges and the methodology of knowledge transfer Thus new ideas are presented to promote the practice of preserving and conserving local knowledge to the practitioners students and communities **Education Law, Strategic Policy and Sustainable Development in Africa** A.C Onuora-Oguno, W.O. Egbewole, T.E. Kleven, 2017-07-06 This book outlines the findings and suggestions of the Law and Society Association's International Research Collaborations which focused on the African Union's Agenda 2063 This outlined the ideal Africa aspired to by the year 2063 the Africa we want The authors examine socio economic rights issues and their impact on developing a strong educational agenda that can drive Africa to realize Agenda 2063 As Africa's development has remained slow in the face of many challenges the need to embrace good governance rule of law and human rights obligations are major tools to realize the continent's potential The project focuses in particular on

the central place of education law and policy in achieving the goals of Agenda 2063

Education Sector Plans and their Implementation in Developing Countries Roy Carr-Hill, 2023-03-09 This book examines the factors affecting the successful implementation of Education Sector Plans in developing countries It provides a detailed comparison that draws on data from 27 countries to offer careful research conclusions and policy recommendations Offering a detailed comparison of the schooling situation e g availability of potable water and toilets provision for the disabled as well as educational outcomes both test scores and percentages out of school from the 27 countries using empirical evidence the book examines the resources that have been invested in different education sectors investigating the development and success of each plan The volume uses correlation analysis to compare factors including the availability of government funding national characteristics ministerial decisions influences of country and donor stakeholders as well as district and school level issues Thorough comparative analysis of the data is then demonstrated with two measures of achievements to identify which factors can be considered as the most important in order to reach realistic policy and research conclusions Timely and engaging this book will be of great interest to researchers scholars and postgraduate students in the field of education and international development comparative education and international education more broadly

Handbook of Applied Developmental Science in Sub-Saharan Africa Amina Abubakar, Fons J.R. van de Vijver, 2017-11-17 This handbook collates research evidence and presents the most up to date findings on child development in Sub Saharan Africa It discusses complex risk factors and medical conditions affecting childhood outcomes and spotlights emerging programs for enhancing literacy and cognitive development The panel of expert contributors offer needed context and knowledge to the discussion of previously understudied topics Chapters present proven intervention strategies currently in use across the diverse region In addition this handbook provides guidelines for culturally sensitive and ethical research that will inform practice and help shape policy goals and initiatives Topics featured in the Handbook include Fatherhood in the African context Sibling care giving and its implications in Sub Saharan Africa Nutritional status infections and child development Diabetes in Sub Saharan African children How to adapt tests for Sub Saharan Africa Interventions aimed at children and caregivers A culturally sensitive approach to conducting research and promoting initial literacy development in Africa The Handbook of Applied Developmental Science in Sub Saharan Africa is a must have resource for researchers professionals scientist practitioners and graduate students in child school and developmental psychology as well as pediatrics social work public health and education

The Politics of Development Claire Mcloughlin, Sameen Ali, Kailing Xie, Nic Cheeseman, David E. Hudson, 2024-03-06 A pathbreaking introduction to the controversial contested and deeply political topic of development Written in an engaging and eminently readable style leading authors invite readers to examine the political dynamics behind some of today s most complex global issues from rising inequality and social exclusion to the climate crisis By confronting false assumptions and dispelling myths the book challenges readers to see politics as not only the obstacle to development

but also the means to achieve it The Politics of Development is grounded in the everyday challenges facing people around the world in accessing the vital resources they need to survive and thrive It illustrates the unavoidable reality that politics shapes who gets what when how whether in family settings local communities national stages or global arenas It provides readers with a clear roadmap for action centred on institutions interests and ideas to better navigate competing demands and push forward profound change There are no easy answers to the politics of development instead this book provides the analytical tools to understand why getting development right can be so hard and how you can positively respond to some of the critical challenges facing governments societies and citizens around the world today This text is essential reading for any student of the politics of development or Development Studies at undergraduate and postgraduate levels Claire Mcloughlin is Associate Professor of Politics and Development University of Birmingham UK Sameen Ali is Assistant Professor of International Development University of Birmingham UK Kailing Xie is Assistant Professor of International Development University of Birmingham UK Nicholas Cheeseman is Professor of Democracy and International Development University of Birmingham UK David Hudson is Professor of Politics and Development University of Birmingham UK

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