

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

MATHEMATICS

4004/2

PAPER 2

NOVEMBER 2018 SESSION

2 hours 30 minutes

Candidates answer on the question paper Additional materials: Mathematical tables Non programmable Electronic Calculator Geometrical Instruments Graph paper (if needed)

Allow candidates 5 minutes to count pages before the examination.

This booklet should not be punched or stapled and pages should not be removed.

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Answer all questions in Section A and any four from Section B.

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Omission of essential working will result in loss of marks.

O Level Zimsec Mathematics Papers

Umesh Ramnarain

O Level Zimsec Mathematics Papers:

Education and Development in Zimbabwe Edward Shizha, Michael T. Kariwo, 2012-01-01 The book represents a contribution to policy formulation and design in an increasingly knowledge economy in Zimbabwe It challenges scholars to think about the role of education its funding and the egalitarian approach to widening access to education The nexus between education democracy and policy change is a complex one The book provides an illuminating account of the constantly evolving notions of national identity language and citizenship from the Zimbabwean experience The book discusses educational successes and challenges by examining the ideological effects of social political and economic considerations on Zimbabwe's colonial and postcolonial education Currently literature on current educational challenges in Zimbabwe is lacking and there is very little published material on these ideological effects on educational development in Zimbabwe This book is likely to be one of the first on the impact of social political and economic meltdown on education The book is targeted at local and international academics and scholars of history of education and comparative education scholars of international education and development undergraduate and graduate students and professors who are interested in educational development in Africa particularly Zimbabwe Notwithstanding the book is a valuable resource to policy makers educational administrators and researchers and the wider community Shizha and Kariwo s book is an important and illuminating addition on the effects of social political and economic trajectories on education and development in Zimbabwe It critically analyses the crucial specifics of the Zimbabwean situation by providing an in depth discourse on education at this historical juncture The book offers new insights that may be useful for an understanding of not only the Zimbabwean case but also education in other African countries Rosemary Gordon Senior Lecturer in Educational Foundations University of Zimbabwe Ranging in temporal scope from the colonial era and its elitist legacy through the golden era of populist universal elementary education to the disarray of contemporary socioeconomic crisis covering elementary through higher education and touching thematically on everything from the pernicious effects of social adjustment programmes through the local deprofessionalization of teaching this text provides a comprehensive wide ranging and yet carefully detailed account of education in Zimbabwe This engagingly written portrayal will prove illuminating not only to readers interested in Zimbabwe s education specifically but more widely to all who are interested in how the sociopolitical shapes education how ideology policy international pressures economic factors and shifts in values collectively forge the historical and contemporary character of a country's education Handel Kashope Wright Professor of Education University of British Columbia 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 fa ade 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 School Science Practical Work in Africa Umesh Ramnarain, 2020-06-01 School Science done next. Practical Work in Africa presents the scope of research and practice of science practical work in African schools It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work. The book highlights trends and patterns in the enactment and role of practical work across African countries Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work and professional development in teaching practical work This book will be of great interest to academics researchers and post graduate students in the fields of science education and educational policy 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 <u>Development of Education</u> Zimbabwe. Ministry of Education, 1996

Global Perspectives on Teacher Performance Improvement Al-Mahdi, Osama, Purinton, Ted, 2022-02-04 In service teacher professional development is central to most empirical conceptions of educational quality As the techniques and strategies for educational reform have spread rapidly throughout the world teacher professional development practices have been borrowed across borders It is important to study the global sharing of information on teacher professional development Global Perspectives on Teacher Performance Improvement examines the implementation of proven high quality teacher professional development practices in unique environments around the world It further explains the power of a globally connected community of teacher quality improvement Covering topics such as mentoring programs education technology and education workforce this book is an essential resource for educational administration and faculty pre service teachers the public education sector government officials educators of both K 12 and higher education researchers and academicians

New General Mathematics for Junior Secondary Schools Murray Macrae, A. O. Kalejaiye, Z. I. Chima, G. U. Gaba, M.

O. Ademosu, 2008-06-03 This well established series the most popular in Nigeria has been fully revised to reflect recent developments in mathematics education at junior secondary level and the views of the many users of the books It has expecially been revised to fully cover the requirements of the new NERDC Universal Basic Education Curriculum of the Presidential Commission of Inquiry Into Education and Training Zimbabwe. Presidential Commission on Education and Training in Zimbabwe,1999 Cambridge O Level Physics Heather Kennett, Tom Duncan, 2021-06-25 This title is endorsed by Cambridge Assessment International Education to support the full syllabus for examination from 2023 Written by renowned expert authors our updated resources enable the learner to effectively navigate through the content of the revised Cambridge O Level Physics 5054 syllabus for examination from 2023 Develop strong practical skills practical skills features provide guidance on key experiments interpreting experimental data and evaluating results supported by practice questions for preparation for practical exams or alternatives Build mathematical skills worked examples demonstrate the key mathematical skills in scientific contexts supported by follow up questions to put these skills into practice Consolidate skills and check understanding self assessment questions exam style questions and checklists are embedded throughout the book alongside key definitions of technical terms and a Glossary Navigate the syllabus confidently content flagged clearly with introductions to each topic outlining the learning objectives and context Deepen and enhance scientific knowledge going further boxes throughout encourage students to take learning to the next level **Understanding Pure Mathematics** A. J. Sadler, D. W. S. Thorning, 1987 This textbook covers in one volume all topics required in the pure mathematics section of single subject A Level Mathematics syllabuses in the UK as well as a significant part of the work required by those studying for Further Mathematics and for A Level Algebra Part 2 (Speedy Study Guides) Speedy Publishing, 2014-06-17 Not everyone has a knack for Mathematics and several people simply give up when the teacher begins adding letters into the equations However there are actually some solid uses for Algebra 2 other than keeping headache medicine manufacturers in business Building on the ideas and core concepts learned in basic Algebra the intermediate Algebra 2 introduces abstract thinking Students learn how to identify likenesses and evaluate equations based on their characteristics This information is useful for higher mathematical pursuits and is also helpful for general life The analytic approach to problem solving is essential in both employment situations and personal relationships The State, Ideology, and Education Rugano Jonas Zvobgo,1997 The Price of Spiritual Power Roberts Liardon, 2014-07-01 Four Favorites in One Volume If you are serious about moving closer to God and doing what it takes to have a deeper walk with Jesus here are four Roberts Liardon titles in one volume that will help you to get there Holding to the Word of the Lord will teach you how to hold on to what God has told you and to move forward in victory The Quest for Spiritual Hunger will point the way to a deeper more intimate relationship with God and the victory that comes with it The Price of Spiritual Power will light the path to holiness and spiritual power Spiritual Timing will insure that you not only do the right thing but that you do it at the right time in God s

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Edition is written to meet the needs of the student studying for the General Certificate of Education at Advanced Level The text is organized into 22 chapters Chapters 1 5 cover topics in algebra such as operations with real numbers the binomial theorem and the quadratic function and the quadratic equation. The principles methods and techniques in calculus trigonometry and co ordinate geometry are provided as well Two new chapters have been added Numerical Methods and Vectors Mathematics students will find this book extremely useful Cambridge IGCSE and O Level Economics Paul Hoang, Margaret Ducie, 2013-12-13 Written with the international student in mind this book is endorsed by Cambridge International Examinations and contains the most up to date case studies global examples and statistics In depth coverage of every aspect of the latest Cambridge IGCSE and O Level Economics syllabuses to help students build the skills needed to succeed Engaging and contemporary case studies and examples ensure the book is relevant to the international student Accessible language and key terms defined to support ESL EAL students Student focused CD ROM provides useful weblinks to the latest case studies interactive activities and answers to the questions in the textbook A stimulating and exciting introduction to Economics that enables students from anywhere in the world to relate to the subject Caroline Loewenstein Economics and Business Education Association Cambridge International Examinations and Hodder Education Hodder Education works closely with Cambridge International Examinations and is an authorised publisher of endorsed textbooks for a wide range of Cambridge syllabuses and curriculum frameworks Hodder Education resources tried and tested over many years but updated regularly are used with confidence worldwide by thousands of Cambridge students

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