



**ZIMBABWE SCHOOL EXAMINATIONS COUNCIL**  
General Certificate of Education Ordinary Level

**MATHEMATICS**

**4028/2**

PAPER 2

NOVEMBER 2022 SESSION

2 hours 30 minutes

Additional materials:

- Answer paper
- Geometrical instruments
- Graph paper (3 sheets)
- Mathematical tables
- Plain paper (1 sheet)

**TIME** 2 hours 30 minutes

**INSTRUCTIONS TO CANDIDATES**

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

Answer **all** questions in Section **A** and any **three** questions from Section **B**.

Write your answers on the separate answer paper provided.

If you use more than one sheet of paper, fasten the sheets together.

All working must be clearly shown. It should be done on the same sheet as the rest of the answer.

Omission of essential working will result in loss of marks.

If the degree of accuracy is not specified in the question and if the answer is not exact, the answer should be given to three significant figures. Answers in degrees should be given to one decimal place.

**INFORMATION FOR CANDIDATES**

The number of marks is given in brackets [ ] at the end of each question or part question. Mathematical tables or electronic calculators may be used to evaluate explicit numerical expressions.

**This question paper consists of 11 printed pages and 1 blank page.**

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# Zimsec Physical Science Paper 2 Wrote Last Year November

**J Rink**



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A Handbook on Education and Training in Zimbabwe Zimbabwe. Ministry of Labour, Manpower Planning, and Social Welfare,1983    Zimbabwe Press Mirror ,1998    **Resources in Education** ,1990    The Zimbabwe Science News ,1999

**Food Crop Production by Smallholder Farmers in Southern Africa** Ambayeba Muimba-Kankolongo,2018-02-07  
Food Crop Production by Smallholder Farmers in Southern Africa Challenges and Opportunities for Improvement evaluates traditional cultivation practices used by smallholder farmers providing a synthesis of the latest information on increasing crop yield through adoption of research innovations The book catalogs smallholder cultivation practices and recommends innovative strategies for improving the agriculture sector including management practices that reduce net carbon emissions technologies that improve soil structures and conserve the natural resources base means of empowering female resources along value chains and government commitment to adopt policies that enhance agriculture productivity by encouraging farmers to use environmentally sound cultivation technologies Traditional farming techniques often produce negative impacts on the environment and ecosystem resulting in outbreaks of diseases and pests In addition to the region s recurrent droughts these outbreaks of numerous diseases and pests weeds and other invasive plants put thousands at risk of poverty and hunger as well as malnutrition This book presents enhanced agricultural production technologies for ensuring adequate food production safety and nutritional quality for the population of Southern Africa and forms the basis for an increased SADC regional effort in food production through which financial and trade institutions can improve stakeholder capacities encourage micro enterprise development and enhance employment and regional trade Provides a critical synthesis of data and information for increasing crop yield through adoption of research innovations Evaluates traditional and scientific interventions that address food security issues of the poor farmers in the region Presents agro ecologies of countries in the region and how they relate to various cultivation practices Catalogs smallholder cultivation practices and recommends innovative strategies for improving the agriculture sector    *Diverting the Flow* Margreet Zwarteveen,Sara Ahmed,Suman Rimal Gautam,2014-03-11 Across the South Asian region water determines livelihoods and in some cases even survival However water also creates exclusions Access to water and its social organisation are intimately tied up with power relations This book provides an overview of gender equity and water issues relevant to South Asia The essays empirically illustrate and theoretically argue how gender intersects with other axes of social difference such as class caste ethnicity age and religion to shape water access use and management practices Divided into six thematic sections each of which starts with an introduction of relevant concepts debates and theories the book looks at laws and rights policies technologies and intervention strategies In all the book clearly shows how understanding and changing the use distribution and management of water is conditional upon understanding and accommodating gender relations Published by Zubaan    **Nature** ,1892

**Cumulated Index Medicus** ,1986    *American Universities and Colleges* Praeger Publishers,2010-04-16 For well over

a half century American Universities and Colleges has been the most comprehensive and highly respected directory of four year institutions of higher education in the United States A two volume set that Choice magazine hailed as a most important resource in its November 2006 issue this revised edition features the most up to date statistical data available to guide students in making a smart yet practical decision in choosing the university or college of their dreams In addition the set serves as an indispensable reference source for parents college advisors educators and public academic and high school librarians These two volumes provide extensive information on 1 900 institutions of higher education including all accredited colleges and universities that offer at least the baccalaureate degree This essential resource offers pertinent statistical data on such topics as tuition room and board admission requirements financial aid enrollments student life library holdings accelerated and study abroad programs departments and teaching staff buildings and grounds and degrees conferred Volume two of the set provides four indexes including an institutional Index a subject accreditation index a levels of degrees offered index and a tabular index of summary data by state These helpful indexes allow readers to find information easily and to make comparisons among institutions effectively Also contained within the text are charts and tables that provide easy access to comparative data on relevant topics

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**Index of Conference Proceedings** British Library. Document Supply Centre, 2003

*Who's who of Southern Africa*, 1984 Vols for 1967 70 include as a section Who's who of Rhodesia Mauritius Central and East Africa

**Forthcoming Books** Rose Arny, 2001

**imwe imba - the other room** Munashe Wadzanai, Anne Schlechters, Thomas F. Andersson, 2022-11-01 Munashe is a bright adolescent girl living in Zimbabwe She feels a pressure to leave Zimbabwe and to follow most of her peers to a university or to work in the West However she is not convinced that this is what she really wants Via Thomas an experienced European scientist and manager initiating a technical Start up Hub at her boarding school Munashe comes in contact with Anne Imwe imba the other room is a novel covering the last 2 high school years of Munashe and Anne in letters between the young women as well as from Thomas to Simon his now retired personal and business coach Through the letters Anne and Simon discover unknown and fascinating aspects of the southern African society Especially since Thomas includes stories from Nelson Munashe's grandfather and small holder farmer Based on the stories and hearing about Munashe's activities in more technical projects Anne develops a critical attitude towards both the current Western school system and the effectiveness of traditional Western development or aid projects On the other side Munashe learns that Europe is not the land of milk and honey for everybody Munashe and Anne assisted by Thomas review the so called development work activities in emerging markets and propose a promising approach to economically uplift more rural areas In part 2 the Start up Hub activities are proven to be sustainable and Munashe asks where do we want to go A design is made for a more ideal global society and the issues faced implementing their ideas are discussed The letters in this novel cover a wide spectrum of topics personal struggles and contemplations

educational and business practices science and art geopolitics and historical backgrounds change management as well as social developments Each letter is written in an accessible language and underlined with references to allow the reader to explore more Most of all imwe imba wants to create awareness Awareness for the wonderful real life in Africa Awareness that Africa is prosperity Awareness that our younger generation is perfectly able to initiate change That a single person can initiate change That complaining or being upset about various unacceptable global happenings or actions is not enough That a further polarisation and blaming the others doesn t help That we have to do things That we should not fear change but embrace the changes that are needed to come to the necessary improvements

**National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1993      **African Journal of Library, Archives & Information Science** ,1996  
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