

Candidate Name

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ZIMBABWE SCHOOL EXAMINATIONS COUNCIL
General Certificate of Education Ordinary Level

MATHEMATICS
PAPER 1

4004/1

NOVEMBER 2022 SESSION 2 hours 30 minutes

Candidates answer on the question paper

*Additional materials:
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Allow candidates 5 minutes to count pages before the examination.

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Answer all questions.

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David Coniam, Peter Falvey



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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 have 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.

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

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