

GAUTENG DEPARTMENT OF EDUCATION
PREPARATORY EXAMINATION

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MATHEMATICS
(First Paper)

MEMORANDUM

QUESTION 1 [14]

1.1 $x(x+2) = 0$
 $x = 0$ or $x = -2$

1A factorizing
2 CA for each answer

[3]

1.2 $x \leq -2$ or $x \geq 0$; with $x > 0$
 $\therefore x > 0$

2CA for each inequality
(-1) if "<" is used
1CA for selecting correct inequality
Full marks for answer only.

[3]

1.3
$$x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(2)(-7)}}{2(2)}$$

$$x = \frac{3 \pm \sqrt{65}}{4}$$

 $x = 2.77$ or $x = -1.27$

1A substitution into correct formula

$\frac{2}{3}$ if left in surd form

2CA for each correct answer

[3]

1.4 $1 + 2^{n-2} + 2^{n-1} + 2^n = 53$
 $2^n(2^{-2} + 2 + 1) = 52$
 $2^n = 16$
 $n = 4$

1A for $2^0 = 1$
1A for factorizing
1A for RHS
1CA
1CA

[5]

QUESTION 2 [10]

2.1.1 $(x+1)^2 - 4 = 16$
 $(x+1)^2 = 20$
 $x+1 = \pm\sqrt{20}$
 $x = \pm 2\sqrt{5} - 1$

OR

$(x+1)^2 - 4 = 16$
 $x^2 + 2x - 19 = 0$
$$x = \frac{-2 \pm \sqrt{(2)^2 - 4(-19)}}{2}$$

 $x = \pm 2\sqrt{5} - 1$

1A squaring both sides
1CA for isolating complete square
1M for taking square root
2CA for each answer

1A squaring both sides
1CA simplification
1CA substitution into correct formula

2CA for each answer

[5]

2.1.2 $k = 0$

1A

[1]

Gauteng Trial Exam Papers 2014

Koech Cheruiyot



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,2014 Development In Modern Africa Martin S. Shanguhya, Toyin Falola, 2019-10-08 Development in Modern Africa Past and Present Perspectives contributes to our understanding of Africa's experiences with the development process. It does so by adopting a historical and contemporary analysis of this experience. The book is set within the context of critiques on development in Africa that have yielded two general categories of analysis: skepticism and pessimism. While not overlooking the shortcomings of development, the themes in the book express an optimistic view of Africa's development experiences, highlighting elements that can be tapped into to enhance the condition of African populations and their states. By using case studies from precolonial, colonial, and postcolonial Africa, contributors to the volume demonstrate that human instincts to improve material, social, and spiritual worlds are universal. They are not limited to the Western world, which the term and process of development are typically associated with. Before and after contact with the West, Africans have actively created institutions and values that they have actively employed to improve individual and community lives. This innovative spirit has motivated Africans to integrate or experiment with new values and structures, challenges, and solutions to human welfare that resulted from contact with colonialism and the postcolonial global community. The book will be of interest to academics in the fields of history, African studies, and regional studies. The Changing Space Economy of City-Regions Koech Cheruiyot, 2017-10-30 This book addresses the South African Space Economy and its stark disparities and dualisms through an assessment of the Gauteng City Region, the largest economic agglomeration in the country and on a continent bedeviled by a myriad of development challenges. The book's focus on understanding the overall character of Gauteng City Region's Space Economy through data mining, analysis, and mapping comprehensively supplements the Space Economy literature on the region. It covers the disparities exacerbated by an overlay of apartheid planning ideology and top-down regional development based on selective encouragement of manufacturing investments in growth points or poles and how implementation of past policies intended to cure these disparities have yielded mixed results. This book further offers the Gauteng City Region as a microcosm of the national economy in the form of evident significant place-based variations in the intensity and character of economic structure that on the one hand enjoys massive agglomeration economies while on the other has high levels of poverty and large numbers of people living below the Minimum Living Level. This book should appeal to urban studies specialists, economists, and development studies researchers in the Global South. **The Global Practice of Forensic Science** Douglas H. Ubelaker, 2015-02-16 The Global Practice of Forensic Science presents histories, issues, patterns, and diversity in the applications of international forensic science. Written by 64 experienced and internationally recognized forensic scientists, the volume documents the practice of forensic science in 28 countries from Africa, the Americas, Asia, Australia, and Europe. Each country's chapter explores factors of political history, academic linkages, the influence of individual cases, facility development, types of cases examined, integration within forensic science, recruitment, training, funding, certification, accreditation, quality control, technology, disaster preparedness, legal issues, research, and future

directions Aimed at all scholars interested in international forensic science the volume provides detail on the diverse fields within forensic science and their applications around the world

Mathematics Teaching and Professional Learning in sub-Sahara Africa Kakoma Luneta, 2021-12-09 The book represents a crop of wide ranging research conducted by renowned scholars in sub Sahara Africa revolving around mathematics teaching and professional development programs for mathematics teachers The research based proposals and actual how to conduct professional development initiatives that enhance effective mathematics instruction are rooted in teacher input and informed by learners errors and misconceptions The book provides a comprehensive snapshot on mathematics teaching learning and effective professional development programmes for mathematics teachers in sub Sahara Africa It is the only research output that advances and disseminates issues of mathematics education and research in the region with input from South Africa Kenya Rwanda Uganda Malawi Namibia Lesotho Ethiopia and Zimbabwe

South African Urban Change Three Decades After Apartheid Anthony Lemon, Ronnie Donaldson, Gustav Visser, 2021-06-10 This book provides an analysis of South African urban change over the past three decades It draws on a seminal text *Homes Apart* and revisits conclusions drawn in that collection that marked the final phases of urban apartheid It highlights changes in demography social as well as economic structure and their differential spatial expression across a range of urban sites in South Africa The evidence presented in this book points to a very complex set of narratives in urban South Africa and one that cannot be reduced to a singular statement so the conclusions of the various investigations are in many ways open As urban apartheid represented one clear outcome its post apartheid urban legacies varies greatly from city to city As such this book is a great resource to students and academics focused on urban change in South African cities since the demise of apartheid and scholars of urban policy making in South Africa and Southern urbanists generally

Historical trauma and memory Pumla Gobodo-Madikizela, Eric Ndushabandi, Kopano Ratele, 2021-12-06 How wounds from a previous generation may weigh on children and grandchildren contain much of interest Yet if we unpack the ghostly the eerie and the spectral in transgenerational hauntings if we allow for the suffering or the disturbed to forge social links such contacts may enable breaking into reconnections and afterlives One only needs to think of the near epidemic of rape in South Africa to sense violent hypermasculinity erupting as madness mediated by a history of brutal racialised reduction But it is also important to move beyond the brutalities and madness to consider the individual and collective refigurations surfacing out of layers of catastrophe

Nancy Rose Hunt Conference Keynote Address Beyond Trauma Notes on a Word a Frame and a Diagnostic Category Historical Trauma and Memory Living with the Haunting Power of the Past is based on essays presented at a conference with the same name which was held in Kigali Rwanda in April 2019 The book gives readers front row seats as an interdisciplinary group of scholars from law psychology history the arts anthropology theology and philosophy address the complex matrix of the emotional legacies of historical trauma cultural legacies people interacting with their social and political environment and the interplay of these

factors in different post conflict societies **An Emerging Approach for Education and Care** Susana Castro,Olympia Palikara,2017-08-07 An Emerging Approach for Education and Care provides a synthesis of the extensive research that has been conducted worldwide about the International Classification of Functioning Disability and Health for Children and Youth in education and care The main purpose of the ICF is to provide a classification of functioning for adults and children with difficulties considering their everyday lives all the activities they perform and the environments they are embedded in in addition to their health condition which has been the traditional focus of Special Education provision in many countries Each chapter presents an evidence based study describing how the ICF has been used to improve the provision of services for children and young people with Special Educational Needs around the world Moreover each chapter is written by an expert on the ICF from a different country thus providing an overview of how the ICF can be applied in international educational contexts with different educational and health systems and cultural backgrounds This synthesis of world leading research focuses on the ICF as a framework to approach assessment intervention and classification for children and young people with SEN whilst also providing practical examples of how it can be implemented An Emerging Approach for Education and Care will be essential reading for academics researchers and practitioners working on Special Educational Needs provision and rehabilitation It should also be of great interest to those involved in the study of early childhood education and for postgraduate students aspiring to work in these settings *Knowledge and Change in African Universities* Michael Cross,amasa ndofirepi,2017-01-28 Besides the ongoing concern with the epistemological and theoretical hegemony of the West in African academic practice the book aims at understanding how knowledge is produced and controlled through the interplay of the politics of knowledge and current intellectual discourses in universities in Africa In this regard the book calls for African universities to relocate from the position of object to subject in order to gain a form of liberated epistemological voice more responsive to the social and economic complexities of the continent In itself this is a critical expos of contemporary practices in knowledge advancement in the continent Broadly the book addresses the following questions How can African universities reinvent knowledge production and dissemination in the face of the dominant Eurocentrism so pervasive and characteristic of academic practice in Africa to enhance their relevance to the contexts in which they operate How can such change particularly at knowledge production and distribution levels be undertaken without falling into an intellectual and discursive ghettoization in the global context What then is the role of academics policy makers and curriculum and program designers in dealing with biases and distortions to integrate policies knowledge and pedagogy that reflect current cultural diversity both local and global Against this backdrop while some contributions in this book argue that emancipatory epistemic voice in African universities is not yet born or it is struggling with little success many dissenting voices charge that if Africans do not take responsibility and construct knowledge strategies for their own emancipation who will **School Leadership for Democratic Education in South Africa** Tsediso Michael Makoelle,Thabo

Makhalemele., Pierre du Plessis, 2021-07-29 *School Leadership for Democratic Education in South Africa* explores the democratization and modernization of education in South Africa analyzing the state of school leadership in South African schools from the time of the new democratic education dispensation in 1994 to the present day. The book maps out what the future of education in South Africa could look like and explores the most conducive educational environments for change in South African schools. It adopts a critical approach to analyzing leadership and management in the context of school governance, school effectiveness, teacher development, multiculturalism, and equity in education. Contributions explore the democratization and modernization of education in South Africa through examining different perspectives, achievements, and challenges, and also consider issues around access to technology, language policy, and the curriculum along with new literature on selected aspects of leadership. This book will be of great interest for researchers, scholars, and students in the fields of educational leadership, sociology of education, and teacher education.

Curriculum and the Teacher Nigel Norris, 2014-06-03 Even though the curriculum can be tightly specified and controlled by strong accountability mechanisms, it is teachers who decisively shape the educational experiences of children and young people at school. Bringing together seminal papers from the *Cambridge Journal of Education* around the theme of curriculum and the teacher, this book explores the changing conceptions of curriculum and teaching and the changing role of the teacher in curriculum development and delivery. The book is organised around three major themes. Taking its lead from Lawrence Stenhouse, Part One looks at defining the curriculum problem from a variety of perspectives and includes papers from some of the most influential curriculum theorists over the last thirty years. Part Two explores the framing of new orders of educational experience. It has papers from leading educational thinkers who have contributed to debates about how to make education more inclusive, humane, liberating, creative, and educational. Part Three is focused on teachers and teaching. It offers a selection of papers from significant scholars in the field reflecting on the experience of teaching and how it is personally as well as socially constructed and theorised. The papers are drawn from important and eventful periods of educational history spanning the curriculum reform movement of the 1960s and 1970s to the present age of surveillance, accountability, and control. A specially written Introduction contextualises the papers. Part of the Routledge Education Heritage series, *Curriculum and the Teacher* presents landmark texts from the *Cambridge Journal of Education* offering a wealth of material for students and researchers in education.

Emerging Technologies for Smart Cities Oluwayemi-Oniya Aderibigbe, Trynos Gumbo, Samson Olawale Fadare, 2024-08-13 This book examines the use of smart city associated technologies to enhance sustainable transportation planning in cities of both the global north and south, focusing specifically on sustainable transportation. The authors of the book examine technologies and tools such as UAVs, GIS, cutting edge information and communication technologies, machine learning, and big data to assess their potential for reducing traffic, redirecting traffic to assigned routes, monitoring traffic growth, and development in our urban centres with the ultimate aim of reducing congestion, commuting time, accidents, and

pollution to promote climate action and a just transition The book offers a comparative study of transport situation and planning in the developed and developing countries focusing on the United States of America Germany and Singapore in the Global North on one hand and South Africa Nigeria and India from the Global South on the other As more and more of the world's population lives in urban centers proactively monitoring and managing car traffic is essential The book will be of interest to academics and researchers in the built environment architecture urban and regional planning construction management quantity surveying geography engineering environmental sciences social sciences public policy design in both the developed and developing countries

Urban Public Transport Systems Innovation in the Fourth Industrial Revolution Era Trynos Gumbo, Thembani Moyo, Bongumusa Ndwandwe, Brightnes Risimati, Siphiwe Given Mbatha, 2022-04-02 This book explores the physical and electronic integration of innovative urban public transport systems in seven metropolitan cities in South Africa and Zimbabwe in the era of the Fourth Industrial Revolution Industry 4.0 The book also highlights how collaborative engagement can improve new transport projects in cities of the Global South It demonstrates how integration concerns remain in transport infrastructure projects in cities of the developing countries Consequently in order to strengthen the emerging and promising economies of these cities there is a need for efficient integrated reliable and affordable public transport systems The book explains that plans to deliver innovative transport systems in the Global South need to be well coordinated and managed to yield physically and electronically integrated systems

The Land Is Sung Thomas M. Pooley, 2023-10-17 What does it mean to belong In The Land Is Sung musicologist Thomas M Pooley shows how performances of song dance and praise poetry connect Zulu communities to their ancestral homes and genealogies For those without land tenure in the province of KwaZulu Natal performances articulate a sense of place Migrants express their allegiances through performance and spiritual relationships to land are embodied in rituals that invoke ancestral connection while advancing well being through intergenerational communication Engaging with justice and environmental ethics education and indigenous knowledge systems musical and linguistic analysis and the ethics of recording practice Pooley's analysis draws on genres of music and dance recorded in the midlands and borderlands of South Africa and in Johannesburg's inner city His detailed sound writing captures the visceral experiences of performances in everyday life The book is richly illustrated and there is a companion website featuring both video and audio examples

Handbook of Research on Advocacy, Promotion, and Public Programming for Memory Institutions Ngulube, Patrick, 2019-01-11 Memory institutions such as archives libraries and museums collect arrange describe and preserve their collections and holdings in order to make them accessible to the community However these institutions remain underutilized and are struggling to raise awareness of their existence and attract users and funders The Handbook of Research on Advocacy Promotion and Public Programming for Memory Institutions is a collection of innovative research on emerging strategies such as advocacy outreach marketing and public programming to promote memory institutions and engage the community While highlighting

topics including customer service solutions social media and collection development strategies this book is ideally designed for heritage management and information professionals curators museum management archival specialists librarians policymakers researchers and academicians

Handbook on Transport Pricing and Financing Alejandro Tirachini, Daniel Hörcher, Erik T. Verhoef, 2023-05-09 Taking a comprehensive approach to two central closely intertwined themes in the field of transport economics this illuminating Handbook recognizes the critical socioeconomic importance of transport pricing and financing

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