

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

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 Prilim Exam Papers 2014

F Rizvi



Gauteng Prilim Exam Papers 2014:

Twenty Years of Education Transformation in Gauteng 1994 to 2014 Maringe, Felix, Prew, Martin, 2015-05-05
Twenty Years of Education Transformation in Gauteng 1994 to 2014 An Independent Review presents a collection of 15 important essays on different aspects of education in Gauteng since the advent of democracy in 1994 These essays talk to what a provincial education department does and how and why it does these things whether it be about policy resourcing or implementing projects Each essay is written by one or more specialist in the relevant focus area The book is written to be accessible to the general reader as well as being informative and an essential resource for the specialist reader It sheds light on aspects of how a provincial department operates and why and with what consequences certain decisions have been made in education over the last 20 turbulent years both nationally and provincially There has been no attempt to fit the book's chapters into a particular ideological or educational paradigm and as a result the reader will find differing views on various aspects of the Gauteng Department of Education's present and past We leave the reader to decide to what extent the GDE has fulfilled its educational mandate over the last 20 years *Education in a New South Africa* Robert J. Balfour, 2015-09-24
A collaborative series with the University of Cambridge Faculty of Education highlighting leading edge research across Teacher Education International Education Reform and Language Education **The Politics and Governance of Basic Education** Brian Levy, Robert Cameron, Ursula Hoadley, Vinothan Naidoo, 2018-09-05 This is an open access title available under the terms of a CC BY NC ND 4.0 International licence It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations All over the world economic inclusion has risen to the top of the development discourse A well performing education system is central to achieving inclusive development but the challenge of improving educational outcomes has proven to be unexpectedly difficult Access to education has increased but quality remains low with weaknesses in governance comprising an important part of the explanation The Politics and Governance of Basic Education explores the balance between hierarchical and horizontal institutional arrangements for the public provision of basic education Using the vivid example of South Africa a country that had ambitious goals at the outset of its transition from apartheid to democracy it explores how the interaction of politics and institutions affects educational outcomes By examining lessons learned from how South Africa failed to achieve many of its goals it constructs an innovative alternative strategy for making process combining practical steps to achieve incremental gains to re orient the system towards learning Proceedings of IAC 2019 in Vienna Group of Authors, 2019-07-04 Scientific articles from International Academic Conference on Teaching Learning and E learning International Academic Conference on Management Economics and Marketing International Academic Conference on Engineering Transport IT and AI WASTES: Solutions, Treatments and Opportunities IV Candida Vilarinho, Fernando Castro, Margarida J Quina, 2023-09-06 WASTES Solutions Treatments and Opportunities IV contains selected papers presented at the 6th edition of the International Conference Wastes Solutions

Treatments and Opportunities that took place on 6-8 September 2023 in Coimbra Portugal. The Wastes conference which takes place biennially is a prime forum for sharing innovations, technological developments and sustainable solutions for waste management and recycling sectors worldwide with the participation of experts from academia and industry. The papers included in this book cover a wide range of topics including: Management of waste streams; Environmental, economic and social aspects in waste management; Logistics; policies, regulatory constraints and markets in waste management; Waste to energy technologies; Life cycle assessment and carbon footprint; Biological treatment techniques; Waste treatment and valorization technologies; Circular economy and industrial symbioses; Smart technologies and digital tools in waste management; Recycling of wastes and resources recovery; Wastes refineries; Food waste management and bioeconomy; Plastic waste impacts; management strategies and solutions; Wastes as critical raw materials resources; WASTES Solutions.

Treatments and Opportunities IV is aimed at academics and professionals involved in waste management and recycling sectors globally.

The Post-Election Violence in Kenya Sosteness Francis Materu, 2014-12-04. Since the historic Nuremberg Trial of 1945, an international customary law principle has developed that commission of a core crime under international law—war crimes, genocide, crimes against humanity and aggression—should not go unpunished. History shows that when in Africa such violations occurred, especially as a result of election disputes, national and regional actors including the African Union resorted to political rather than legal responses. However, when crimes against humanity were alleged to have been committed in Kenya during the 2007-2008 post-election violence, a promising road map for criminal accountability was agreed upon alongside a political solution. In the spirit of this road map, the author analyzes the post-election violence in Kenya from a legal point of view. He extensively examines legal options for domestic criminal accountability and discusses both retributive prosecutions and restorative justice, mainly truth commission mechanisms being the main legal responses to the gross violations of human rights. Furthermore, he thoroughly investigates the Kenya situation before the ICC and the legal and political responses to the ICC intervention in Kenya. Practitioners and academics in the field of international criminal law and related disciplines as well as political sciences and legal history will find in this book highly relevant information about alternative legal approaches of the fight against and punishment of crimes against humanity as defined under the ICC Statute.

Proceedings of the International Conference on Education Research Reza Hosseini, *The Global Practice of Forensic Science* Douglas H. Ubelaker, 2014-11-24. 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

Entrepreneurship, Technology Commercialisation, and Innovation Policy in Africa Chux Daniels, Mafini Dosso, Joe Amadi-Echendu, 2021-01-04 This book provides a comprehensive overview of role of entrepreneurship technology commercialisation and innovation policy for the achievement of economic development and prosperity in African societies It adopts a broad innovation systems approach The book examines entrepreneurship innovation and technology commercialisation alongside context specific factors associated with them It also provides an interdisciplinary perspective by discussing the above disciplines in a connected way This book is presented in three distinct parts It starts by discussing entrepreneurship and the state of the entrepreneurial ecosystem in Africa It then moves on to present technology commercialisation in Africa before finally discussing the future directions for entrepreneurship technology commercialisation and innovation policy This broad picture provided in the book enables the reader to grasp the relevant messages whilst the detailed analysis applies world class theories and frameworks to deepen the readers understanding of key concepts and issues examined

ICT Education Henri Emil Van Rensburg, Dirk Petrus Snyman, Lynette Drevin, Günther Richard Drevin, 2024-01-02 This book constitutes the refereed proceedings of the 52nd Annual Conference of the Southern African Computer Lecturers Association on ICT Education SACLA 2023 held in Gauteng South Africa during July 19 21 2023 The 12 full papers included in this book were carefully reviewed and selected from 42 submissions They were organized in topical sections as follows student centered teaching and learning AI and future movements programming and beyond the classroom

South Africa-China Relations Chris Alden, Yu-Shan Wu, 2021-01-23 With the pace of trade and investment picking up coupled with closer international cooperation with Beijing through the G20 FOCAC and BRICS grouping South Africa China ties are assuming a significant position in continental and even global affairs At the same time it is a relationship of paradoxes breaking with many of the assumptions that underpin contemporary analyses of China Africa ties This edited volume examines the South Africa China relationship through a survey of its diplomatic partnership economic ties and broader community relations These important aspects that are often conflated as a single relationship yet what is important to explore are how these components reflect different China South Africa relationship s and how they intersect

Developing Effective Communication Skills in Archaeology Proietti, Enrico, 2019-11-22 Communicating archaeological heritage at the institutional level reflects on the current status of archeology and a lack of communication between archaeologists and the general public only serves to widen the gap of understanding As holders of this specific scientific expertise effective openness and communication is essential to understanding how a durable future can be built through comprehension of the past and the importance of heritage sites and collections *Developing Effective Communication Skills in Archaeology* is an essential research publication that examines archeology as a method for present researchers to interact and communicate with the past and as a methods for identifying

the overall trends in the needs of humanity as a whole Presenting a vast range of topics such as digital transformation artificial intelligence and heritage awareness this book is essential for archaeologists journalists heritage managers sociologists educators anthropologists museum curators historians communication specialists industry professionals researchers academicians and students ICIE 2015 3rd International Conference on Innovation and Entrepreneurship Deresh Ramjugernath,2015-02-24 These proceedings represent the work of researchers participating in the 3rd International Conference on Innovation and Entrepreneurship ICIE 2015 which is being co hosted by The University of KwaZulu Natal Durban and the Ethekwini Municipality Durban South Africa on the 19 20 March 2015 The ICIE Conference constitutes a valuable platform for individuals to present their research findings display their work in progress and discuss conceptual advances in many different branches of innovation and entrepreneurship in business and management At the same time it provides an important opportunity for researchers and managers to come together with peers share knowledge and exchange ideas ICIE builds on the now well established European Conference on Innovation and Entrepreneurship and allows universities outside the European Boundaries the opportunity to host an academic conference on these important topics In addition to the presentations of research the conference will feature a knowledge cafe led by Dr Shawren Singh looking at this topic How can academics focus research efforts to better serve the business and public sector communities The second day will open with a panel discussion looking at Smart cities Opportunities for Entrepreneurship and Economic growth Following an initial submission of 85 abstracts that have undergone a double blind peer review process 26 research papers 3 PhD research papers 2 work in progress papers are published in these Conference Proceedings representing research results from the Czech Republic Denmark Italy Kazakhstan Kenya Lithuania Nigeria Poland Saudi Arabia South Africa Sweden The Netherlands UK USA and Zambia *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 bedevilled 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 placed 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 *After Dictatorship* Peter Hoeres,Hubertus

Knabe,2023-02-20 Numerous studies concerning transitional justice exist However comparatively speaking the effects actually achieved by measures for coming to terms with dictatorships have seldom been investigated There is an even greater lack of transnational analyses This volume contributes to closing this gap in research To this end it analyses processes of coming to terms with the past in seven countries with different experiences of violence and dictatorship Experts have drawn up detailed studies on transitional justice in Albania Argentina Ethiopia Chile Rwanda South Africa and Uruguay Their analyses constitute the empirical material for a comparative study of the impact of measures introduced within the context of transitional justice It becomes clear that there is no sure formula for dealing with dictatorships Successes and deficits alike can be observed in relation to the individual instruments of transitional justice from criminal prosecution to victim compensation Nevertheless the South American states perform much better than those on the African continent This depends less on the instruments used than on political and social factors Consequently strategies of transitional justice should focus more closely on these contextual factors *Impacting Society Positively Through Technology in Accounting and Business Processes* Tankiso Moloi,2025-05-09 This conference volume discusses the findings of the iCAB 2024 conference that took place in Sun City South Africa on June 27 28 2024 The University of Johannesburg hosted the iCAB 2024 conference with the aim to bring together researchers from different Accounting and Business Management fields to share ideas and discuss how new disruptive technological developments are impacting the field of accounting The conference was sponsored by the Association of International Certified Professional Accountants AICPA CIMA **African Paleoeology and Human Evolution** Sally C. Reynolds,René Bobe,2022-06-09 Humans evolved in the dynamic landscapes of Africa under conditions of pronounced climatic geological and environmental change during the past 7 million years This book brings together detailed records of the paleontological and archaeological sites in Africa that provide the basic evidence for understanding the environments in which we evolved Chapters cover specific sites with comprehensive accounts of their geology paleontology paleobotany and their ecological significance for our evolution Other chapters provide important regional syntheses of past ecological conditions This book is unique in merging a broad geographic scope all of Africa and deep time framework the past 7 million years in discussing the geological context and paleontological records of our evolution and that of organisms that evolved alongside our ancestors It will offer important insights to anyone interested in human evolution including researchers and graduate students in paleontology archaeology anthropology and geology

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