

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 2014 Exam Papers

Robert Bergman



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Commercial Law Reports 2014, 2014-12-31 Commercial law judgments South Africa **Daily Graphic** Ransford Tetteh, 2014-03-04 Case Studies of Famous Trials and the Construction of Guilt and Innocence Caroline Gordon, Christopher Birkbeck, 2022-04-11 From the trials of Oscar Pistorius to O J Simpson and Michael Jackson this innovative book provides a critical review of 11 high profile criminal cases These case studies examine how guilt and innocence are constructed in the courts and in wider society using the themes of evidence and narratives credibility rhetoric and oratory in the court room social status vulnerability and false confessions diminished responsibility and the media and social judgments Written for criminology sociology law and criminal justice students the book includes exercises to extend thinking on each case recommended readings for studying the cases and concepts discussed in each chapter an extensive specialist reference list including web links to videos and transcripts pertaining to many of the cases discussed in the book The book delivers an accessible examination of the criminological sociological psychological and legal processes underpinning the outcome of criminal cases and their representation in the media and wider society **Openness and Evidence: The Oscar Pistorius Crossroad** Dr Sonja Els, 2024-11-15 Weighing the constitutional rights of freedom of expression of the media and fair trial rights of the criminal accused known as the fair trial free press conundrum is a global challenge The development of technology such as live streaming of criminal trials through television and real time reporting through social media challenges the traditional views of open justice especially regarding evidence and the credibility thereof The legal maxim of Justice must be seen to be done lies at the heart of this book that focuses on openness and evidence in the South African criminal process The principle of open justice a Constitutional requirement is examined in relation to truth finding in the adversarial system of evidence New media challenge the procedural legitimacy of evidence As a rule of practice to prevent witness contamination witnesses in a criminal trial remain outside the courtroom while the other witnesses testify This book explores the impact of live broadcasting and streaming of criminal trials on the credibility of witnesses who might have been exposed to evidence before testifying The book also evaluates the applicability of the sub judice rule against the requirement of openness Furthermore the conflicting constitutional rights being the right to a fair trial and the right to freedom of expression are interrogated in the quest to new media broadcasting The book features a legal comparison between the jurisprudence of South Africa the United States of America and Britain in the domain of new media court reporting In conclusion principles of therapeutic jurisprudence are considered as live broadcasting of criminal trials may provide therapeutic outcomes for the victim the accused and the broader society This book serves as an indispensable resource for those navigating the intersection between the use of new media in court reporting and the constitutional imperatives being open justice and fundamental rights Scholars in the fields of Law of Criminal Procedure Media Law and Constitutional Law will gain fresh insights into these topical issues **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.

Mathematics Teaching and Professional Learning in sub-Saharan Africa Kakoma Luneta, 2021-12-09 The book represents a crop of wide-ranging research conducted by renowned scholars in sub-Saharan 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-Saharan 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.

Glimpses into Primary School Teacher Education in South Africa Sarah Gravett, Elizabeth Henning, 2020-11-05 This book explores the current landscape of Initial Teacher Education (ITE) in primary schools in South Africa. Considering recent policy directives and initiatives, it highlights the dilemmas of ITE for the primary school and gives a thorough account of innovations and initiatives to improve ITE. The book presents what works best for quality preparation of teachers in the Global South where many children rely on their teachers and school life to break the cycle of poverty. Chapters draw on evidence from workplace learning, pre-service study and primary school teacher education policy to highlight examples of promising change in teacher education in South Africa, addressing the clichés of theory versus practice head-on. This book successfully brings out the challenging aspects of teacher education for childhood learning, which has otherwise been regarded as the softer option for a career in education. This book

will be of great interest for academics researchers and post graduate students in the fields of teacher education African education educational policy international education and comparative education

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

Towards more effective collaboration by higher education institutions for greater regional development in the Gauteng City-Region Robert Bergman, 2014-11-19 Higher education institutions HEIs in the Gauteng City Region GCR and elsewhere are increasingly being called upon to do more than their traditional roles of teaching and research They are now expected to collaborate and engage with other stakeholders with a view to contributing directly and indirectly to social and economic development in their localities Such an orientation includes having HEIs actively fostering public private partnerships and other initiatives that enhance equitable regional development The adoption of such a focus has implications for all aspects of these institutions activities as well as for the policy and regulatory framework in which they operate This Occasional Paper reflects critically on the role of HEIs in regional development It surveys current debates on the matter and draws out some of the implications on how we ought to think further about the current state of government industry academia interaction and collaboration for development in the GCR It is motivated by an awareness of the increasing importance of higher education in the regional development discourse alongside a body of international theory and practice on the contribution of HEIs to regional development A cornerstone of this body of literature is the so called triple helix framework within which government industry and academia work intimately intensely and collaboratively towards a common vision of regional development Within this framework HEIs are considered to be a public good that must play a large meaningful and relevant role in the development and improvement of the cities and regions where they are located 1 2 They do not and cannot stand completely outside the realities of their geographic social cultural and political environment The intended audience for this report

extends beyond academics and HEI administrators to include government officials business and labour leaders civil society and citizens because a discussion on stimulating and improving the GCR must be much more than an academic exercise The collaboration that is essential to regional development requires stakeholders to be familiar with a wide spectrum of issues of importance to individual constituencies Each constituency must add value and insight to the discussion by drawing on their specific knowledge experience and self interests Establishing this common ground is fundamental to initiating meaningful debate about what the GCR can and should be and how regional HEIs can work more collaboratively creatively and effectively to improve and advance the region

The Education Triple Cocktail Brahm Fleisch, 2018-08-15 The Education Triple Cocktail brings together rigorous quantitative and qualitative research on a new approach to improving foundational teaching and learning for schoolchildren living in working class poor and remote rural communities in resource constrained systems like South Africa At the core of this book is the theory and evidence for a powerful new interlocking and mutually reinforcing change model Inspired by the AIDS treatment story the three pronged approach of structured daily lesson plans appropriate and high quality educational materials and one on one instructional coaching to help teachers transform their instructional practices in early grade classrooms shows that it will improve learning outcomes For education systems defined by low levels of early grade learning and profoundly unequal outcomes The Education Triple Cocktail offers a theoretically informed evidence based way forward This book will be of immense use to teachers students of Education policymakers and parents

Proceedings of the Canadian Society of Civil Engineering Annual Conference 2021 Scott Walbridge, Mazdak Nik-Bakht, Kelvin Tsun Wai Ng, Manas Shome, M. Shahria Alam, Ashraf el Damatty, Gordon Lovegrove, 2022-05-17 This book comprises the proceedings of the Annual Conference of the Canadian Society of Civil Engineering 2021 The contents of this volume focus on specialty conferences in construction environmental hydrotechnical materials structures transportation engineering etc This volume will prove a valuable resource for those in academia and industry

Youth Employment Programmes in Africa Ramos E. Mabugu, Lucas Ronconi, 2025-10-03 This book investigates youth employment programmes across nine African countries providing important insights into the world's youngest continent by population in which 60% of people are aged under 25 By 2050 the labour force in sub Saharan Africa is expected to be almost double the size of the labour force in high income countries representing a massive shift in the world's working population and providing a significant challenge for job creation In this book contributors bring together insights from more than 500 in depth interviews and 1 500 focus group participants to consider whether youth employment programmes are effectively reaching vulnerable groups This book tackles the problem of political clientelism in the allocation of benefits and considers the level of coordination that is taking place across programmes and political institutions Combining rich empirical findings with data about labour market outcomes and institutions this book will be an important read for researchers wishing to understand the political economy of youth employment policy in Africa

Suid-Afrikaanse Hofverslae, 2014 *International Law* Carlo

Focarelli, 2019 *International Law* provides a comprehensive theoretical examination of the key areas of international law. In addition to classic cases and materials, Carlo Focarelli addresses the latest relevant international practice to illustrate contemporary themes and trends in international law and to examine its most topical challenges. *Transnational Law & Contemporary Problems*, 2014 Johannesburg, 1997 **Africa Confidential**, 2006

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