

MATHEMATICS

2013

Time: 30 minutes

Max. Marks: 20

SECTION 'A' MULTIPLE CHOICE QUESTION

1. Choose the correct answer for each from the given options: (20)

(i) In the relation $R = \{(2, -3), (2, 6), (2, 3)\}$ the range of R is:
(a) $\{3, 6\}$ (b) $\{2\}$ (c) $\{2, 3\}$ (d) None of them.

(ii) If $A = \begin{bmatrix} 5 & 6 \\ 3 & -1 \end{bmatrix}$, then $A^t =$

(a) $\begin{bmatrix} 3 & -1 \\ 5 & 6 \end{bmatrix}$ (b) $\sqrt{\begin{bmatrix} 5 & 3 \\ 3 & -1 \end{bmatrix}}$ (c) $\begin{bmatrix} -1 & 3 \\ 6 & 5 \end{bmatrix}$ (d) $\begin{bmatrix} 5 & 6 \\ 3 & -1 \end{bmatrix}$

(iii) The degree of given polynomial $\sqrt[3]{(a^2 - b)^3}$ is:

(a) 1 (b) 3 (c) 2 (d) 5

(iv) The logarithmic form of $2^5 = 32$ is:

(a) $\log_{32} 5 = 2$ (b) $\log_2 32 = 5$ (c) $\log_5 32 = 2$ (d) None of these

(v) The characteristics of 6.67×10^{-11} is:

(a) 3 (b) -3 (c) 5 (d) None of them

(vi) Diameter is twice of the:

(a) Radius (b) perpendicular (c) chord (d) tangent

(vii) If $5 : 8 :: 5 : x$, then value of x is:

(a) 40 (b) 25 (c) 5 (d) 8

(viii) The solution set of $|y - 3| = 4$ is:

(a) $\{-1, 2\}$ (b) $\{-2, -2\}$ (c) $\{7, -1\}$ (d) $\{1, 3\}$

(ix) If $x = \{2, 3, 5, 7, 11\}$, then all the numbers in x are:

(a) Prime numbers

(b) Natural numbers

(c) Odd numbers

(d) Even numbers

(x) $\sqrt{1 - \sin^2 \theta} = \dots\dots\dots$

(a) $\cos \theta$ (b) $\tan \theta$ (c) $\sec \theta$ (d) $\sin \theta$

(xi) A circle which touches all the sides of a triangle is called: (a) Inscribed circle (b) Escribed circle

(c) circum circle (d) None of them

(xii) $\cot x =$ (a) $\frac{\sqrt{\cos x}}{\sin x}$ (b) $\frac{\sin x}{\cos x}$ (c) $\frac{1}{\cos x}$ (d) $\frac{1}{\sec x}$

(xiii) If $a : b :: b : c$ then b is called:

(a) 1st proportion

(b) Mean proportion

(c) 4th proportion

(d) None of them

(xiv) The value appears most often in a set of data is called:

(a) Arithmetic mean (b) Median (c) Mode (d) Average

(xv) The multiplicative inverse of $-\frac{1}{2}$ is:

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South African national bibliography ,1999 Classified list with author and title index **ICT Education** Richard J. Barnett,Daniel B. le Roux,Douglas A. Parry,Bruce W. Watson,2022-12-07 This book constitutes the refereed proceedings of the 51st Annual Conference of the Southern African Computer Lecturers Association SACLA 2022 held in Cape Town South Africa during July 21 22 2022 The 10 full papers were included in this book were carefully reviewed and selected from 31 submissions They were organized in topical sections as follows curriculum assessment teaching in context innovative teaching and pandemic pedagogy *Research for Educational Change* Jill Adler,Anna Sfard,2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice

Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research

Homeschooling High School Shirley Erwee, 2014-08-28 Prospective homeschoolers are parents looking for an alternative to the mainstream educational system for their offspring But homeschooling children at high school level strikes fear into even the most dedicated of homeschoolers They need information and answers to their questions And with the current educational and unemployment problems in South Africa young people need clear direction and guidance to help them achieve their goals In addition to exploring the popular ways to gaining a recognised matric certificate outside the formal school system Homeschooling High School also challenges readers to rethink their values particularly the value they place on certification and to consider some unconventional or alternative paths to success In a clearly presented format the book includes advice on legal matters identifying appropriate courses sourcing study material tips on entrepreneurship financing tertiary studies and the testimonies of successful homeschooled graduates Homeschooling High School is a comprehensive guide to plotting a path through high school and beyond

University Access and Success Merridy Wilson-Strydom, 2015-02-11 The challenge of widening access and participation in higher education in a manner that ensures students are successful in their studies is a major issue globally and a significant research focus within higher education studies and higher education policy Similarly the challenge of under preparedness of students entering higher education has become increasingly pertinent as universities in both developed and developing countries struggle to improve their throughput rates in a context in which schooling no longer seems to provide sufficient preparation for entering university In this book Merridy Wilson Strydom applies the capabilities approach to better understand university access and participation and draws on a rich case study from South Africa to critically and innovatively explore the complex and contradictory terrain of access with success The book integrates

quantitative and qualitative research with theory and practical application to provide a new framework for considering and improving the transition from school to university University Access and Success will appeal to academics and researchers in the field of higher education internationally The book also contributes to the growing body of international and comparative scholarship on the capabilities approach in higher education and will therefore be of value to higher education practitioners such as those working in the promotion of teaching and learning higher education quality assurance institutional research and student affairs *The Report: South Africa 2014* Oxford Business Group,2014-12-08 Indeed since the end of apartheid in 1994 South Africa has become a major diplomatic player both on the African continent as well as further afield Despite the size of South Africa's economy the country currently faces a number of major economic challenges As of the end of July 2014 the unemployment rate was at 25.5% according to data from Statistics South Africa which was among the highest in the world While the government's long term development plans are generally highly regarded delivery and execution has occasionally been problematic While there are major hurdles that must be cleared given the country's strong institutions and the rapid pace of economic expansion over the past two decades South Africa should be able to look forward to 20 more years of peace and steady sustained economic growth *Florence Nightingale David* Amanda L. Golbeck,2025-02-27 This book examines Florence Nightingale David's life contributions and relationships throughout her life as well as her subsequent legacy Florence Nightingale David 1909-1993 was the first woman professor in the world's first academic statistics department served in various British ministries during the war from 1939-1945 and was one of the first women to chair a statistics department in a research university In this biography the life stories of David are used as a vehicle to explore a variety of questions surrounding culture and engagement in the statistical sciences What does it take to succeed in an environment that is not inclusive of your demographic How can stories be used to bring technical material to life for students and other learners And how can a nontraditional leader succeed in challenging boundaries and moving an enterprise forward **Master of Arts** Tulsi Badrinath,2013-05-20 V P Dhananjayan was one of the first men to make a successful career as a Bharata Natyam dancer In the late sixties when he made this choice Bharata Natyam the classic dance form that Rukmini Devi helped evolve from the dance of the devadasis was almost exclusively the domain of women In making Bharata Natyam his profession Dhananjayan had to create a space for his dance where none existed It is only recently in the relatively short span of the past seventy years and to a great extent because of the creative efforts of versatile and innovative dancers like Dhananjayan that greater number of men have performed Bharata Natyam as men without needing to dress as women to appear on stage As Dhananjayan's student for nearly forty years now and a trained dancer herself the author Tulsi Badrinath chronicles the story of his brilliant life in dance with the insight of one who understands each nuance of it Weaving her own life long passion for Bharata Natyam with his remarkable story she brings to light the difficulties faced by a male dancer in establishing himself in what was thought to be a somewhat unrespectable profession

and tells the compelling story of his life with empathy and understanding Writing of his years in Kalakshetra and his departure from it of the deep love that blossomed between him and his wife Shanta and the incredible dance partnership they forged making them famous as The Dhananjayans of his international collaborations with Ravi Shankar and of his ability as guru and teacher to impart his passion for dance to his disciples she explores her own understanding of what the dance and her guru have meant to her Interspersing this remarkable tale of guru and shishya with the stories of other young male dancers in the realm of Bharata Natyam she pays tribute to their extraordinary commitment their talent and their courage

The Education Gazette of the Province of the Cape of Good Hope Cape of Good Hope (South Africa). Education Department,1917 **Commonwealth Universities Yearbook** T. Craig,Hugh W. Springer,1979 **A Wealden Round Robin** John Pert,2013-01-14 The Country of Kent situated in the south east corner of England is famous for the white cliffs of Dover which face the French coast only 20 miles away In the centre of the Country there is an area known as The Weald often referred to as the garden of England as it is abundant in the growing of fruit of all kinds and until the 1970 s grew most of the hops used in the production of English beer Our fictional story concerns the lives of a variety of residents in a typical village in this area immediately prior to the 2nd World War and throughout until its end in 1945 their romance successes failures disappointments and tragedies The author lived throughout this period in a village in The Weald of Kent

"Yiza,Thabo!" David R. Donald,2013-09-30 I m sure that you re up there amongst those stars Mama Then he smiled and sighed happily Ehh Ehh Life is going to be absolutely wonderful after all isn t it Mama This story tells of a boy named Thabo and later a young man who goes through many painful trials and tribulations in his boyhood but who also experiences the love of his father and ultimately into his young adulthood the love of his wife After losing his much loved mother to a long agonising illness he is faced with the constant demands to Yiza Thabo Come here Thabo by his stepmother and his teacher both of which precipitate a surprisingly resentful reaction to what he feels is his mother s desertion of him Unusual as feelings of resentment and anger are in the grieving process the story makes them believable in terms of Thabo s specific experiences **The New Statesman and Nation** ,1950 **New Statesman** ,1950 **Matric Past Papers with Suggested Answers** Sheryl Benjamin,1994 Mathematics Anna Ferri,2000 **Mathematics, Standard Grade, DET 1989/1992** Sheryl Benjamin,Jo-Anne Horwitz,1993 **Mathsolutions** Adrienne Melzer,1988

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