



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS NATIONAL SENIOR CERTIFICATE EXAMINATIONS

MATHEMATICS P1

2021

MARKS: 100

TIME: 1 hour

This question paper consists of 10 pages and 1 information sheet.

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QUESTION 1

- 1.1 Solve for x :
 - 1.1.1 $x^2 + 3x + 2 = 0$ (5)
 - 1.1.2 $3x^2 + x - 4 = 0$ (Show partial solution in TWO distinct parts) (10)
 - 1.1.3 $x^2 = 49$ (5)
- 1.2 Given $y = \frac{3x^2 + 5}{x}$:
 - 1.2.1 Solve for x (5)
 - 1.2.2 Hence solve for x : $2x^2 + 22x = 48$ (5)
- 1.3 Without using a calculator, calculate the value of $\sqrt{\frac{36x^2 + 49}{121x^2}}$ (5)
- 1.4 Solve for x and y simultaneously:
 $(x + y + 2) = \frac{1}{x}$ and $\frac{1}{y} = 4y + 1$ (10)

QUESTION 2

- 2.1 The first term of an arithmetic sequence is 2 and the 17th term is 38.
 Determine:
 - 2.1.1 d , the common difference of the sequence (5)
 - 2.1.2 The number of terms in the sequence if the last term of the sequence is 47 (5)
 - 2.1.3 The sum of the first 10 terms in the sequence (5)
- 2.2 $16, 25, 36, 49, \dots$ is a quadratic number pattern.
 - 2.2.1 Write down the 10th term of the number pattern (5)
 - 2.2.2 Determine the n^{th} term of the number pattern (5)
 - 2.2.3 Determine the maximum value of the following number pattern:
 $-12, -\frac{1}{2}, \frac{1}{2}, 1, \frac{3}{2}, 2, \frac{5}{2}, \dots$ (5)

Mathematics June 2015 Paper Memorandum

Clifford Lane



Mathematics June 2015 Paper Memorandum:

Liber Amicorum-Speculum Siderum: Nūt Astrophoros Nadine Guilhou, 2017-01-26 In this volume a pleiade of Egyptologists Archaeologists Archaeoastronomers Archaeoanthropologists Historians and other scholars from fifteen countries have combined their efforts in order to honour Alicia Maravelia *CDS 12 Years Topic-wise Solved Papers Mathematics, English & General Knowledge (2007-2018) - 3rd Edition* Disha Experts, 2018-06-01 The thoroughly revised updated 3rd edition of CDS 12 Years Mathematics English General Knowledge Topic wise Solved Papers 2007 Feb 2018 Feb consists of last 12 years both Feb and November papers from 2007 Paper 1 2018 Paper 1 solved papers of Elementary Mathematics English and General Knowledge distributed into 42 topics In all there are 23 Question papers from 2007 to 2018 I which have been divided into the above discussed 42 topics Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination All the papers are divided into following sections Section I Mathematics which is distributed into 25 topics Section II English is divided into 8 topics Section III General Knowledge is divided into 9 topics The book contains 6460 MILESTONE MCQ s from the above 23 Question papers The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students **The Many Passions of Michael Hardwick** Martin Padgett, 2025-06-03 The little known story of the man who sparked a groundswell of gay activism after a wrongly decided Supreme Court decision Michael Hardwick had no idea that when a police officer stood at his bedroom door on August 3 1982 he would become a face of the gay rights movement Arrested for sodomy Hardwick sued for his right to privacy all the way to the Supreme Court even as the HIV AIDS epidemic began its toll When he lost his era defining case inspired a half million people to protest and the ruling became one of the most reviled of its time Today Bowers v Hardwick reverberates again as the rights of privacy underpinning legal abortion contraception and same sex relationships come under fire But the individual Michael Hardwick has faded from memory his story has been relegated to legal arcana with only a pale rendering of his life outside of the Supreme Court case In *The Many Passions of Michael Hardwick* Martin Padgett assembles the complete kaleidoscope of Hardwick s life as a child of Stonewall as an artist and as one of many thousands claimed by the HIV AIDS epidemic Blending biography and history Padgett traces how Hardwick became a political symbol first by chance then by his own choice even when it made him an object of derision and scrutiny From the then unopened archives of legal scholar Laurence Tribe who argued Hardwick s case alongside the ACLU to hours of new interviews with Hardwick s surviving family and friends Padgett emerges with a story of someone who stood up for equality despite the infamy he knew would attach to him He reveals how Hardwick forced America to come to grips with queer people and to acknowledge its moral failures toward some of its most marginalized citizens In *The Many Passions of Michael Hardwick* Martin Padgett reveals the halting shifts in American sexual politics over the last half century posing urgent

questions about the deliberations of the Supreme Court and returning to Hardwick the humanity stolen from him decades ago Irreducible Geometric Subgroups of Classical Algebraic Groups Timothy C. Burness,,Soumaïa Ghandour,Donna M.

Testerman,2016-01-25 Let G be a simple classical algebraic group over an algebraically closed field of characteristic p with a natural module V . Let H be a closed subgroup of G and let W be a non trivial irreducible tensor indecomposable restricted rational module such that the restriction of W to H is irreducible In this paper the authors classify the triples of this form where H is a disconnected maximal positive dimensional closed subgroup of G preserving a natural geometric structure on V **Drawing**

Futures Bob Sheil,Frédéric Migayrou,Luke Pearson,Laura Allen,2016-11-11 Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture Despite numerous developments in technological manufacture and computational design that provide new grounds for designers the act of drawing still plays a central role as a vehicle for speculation There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation Drawing Futures will present a compendium of projects writings and interviews that critically reassess the act of drawing and where its future may lie Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments The book coincides with an international conference of the same name taking place at The Bartlett School of Architecture UCL in November 2016 Bringing together practitioners from many creative fields the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas On

Non-Topological Solutions of the A_2 and B_2 Chern-Simons System Weiwei Ao,Chang-Shou Lin,Juncheng Wei,2016-01-25 Click here to view the abstract IntroductionProof of Theorem 1.1 in the caseProof of Theorem 1.1 in the caseAppendixBibliography *Space Information Networks* Quan Yu,2019-01-23 This book constitutes the proceedings of the Third International Conference on Space Information Networks SINC 2018 held in Changchun China in August 2018 The 17 full and 7 short papers presented in this volume were carefully reviewed and selected from 140 submissions The papers are organized in topical sections on architecture and efficient networking mechanism theories and methods of high speed transmission and sparse characterization and fusion processing Studies in Intelligence ,2016 **Defense Acquisition**

Trends, 2015 Jesse Ellman,Andrew P. Hunter,Rhys McCormick,Gregory Sanders,2016-02-19 This study examines contracting trends at the U S Department of Defense DoD It relies on empirical analysis of DoD contracting transaction data from the open source Federal Procurement Data System FPDS The authors seek to identify and study emergent trends in the contracting data and marry that analysis with discussion of changing goals and methods for the larger acquisition system

Applications of Operational Research and Mathematical Models in Management Miltiadis Chalikias,2020-11-17 This book

Applications of Operational Research and Mathematical Models in Management includes all the papers published in the Mathematics Special Issue with the same title All the published papers are of high quality and were subjected to rigorous peer review Mathematics is included in the Science Citation Index Web of Science and its current Impact Factor is 1.747 The papers in this book deal with on R D performance models methods for ranking the perspectives and indicators of a balance scorecard robust optimization model applications integrated production and distribution problem solving demand functions supply chain games probabilistic optimization and profit research coordinated techniques for order preference robustness approaches in bank capital optimization and hybrid methods for tourism demand forecasting All the papers included contribute to the development of research

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