



Gr. 11

Technical Mathematics – Paper 1

Formal test – Term 2

Total: 100 points

Time: 2 hours

Learner's name: _____ Gr. 11: _____

Instructions and information:

- This paper consists of two questions, answer both questions.
- The use of a calculator is not permitted.
- No Tip – Ex may be used.
- Show all the steps needed to arrive at the answer.
- Strength!!

Content covered in this paper

- Algebra and logarithms
- Solve equations and applications
- Function analysis
- Rational functions
- Circle and hyperbola

QUESTION 1

1.1 Simplified, the complete WITHOUT the use of a calculator.

1.1.1 $(5\sqrt{3} - x^2)^2$ (2)

1.1.2 $\frac{2x^2 - 5x + 2}{x^2 - 4}$ (3)

1.1.3 $(\sqrt{3} - 1)(\sqrt{3} + 1)$ (3)

1.1.4 $\frac{x^2 - 4}{x^2 - 9}$ (5)

1.2 Given $y = \sqrt{\frac{3x^2 - 12x + 12}{x^2}}$

1.2.1 $\frac{dy}{dx}$ (5)

1.2.2 Next, show that for y , areal numbers then are x 6 even numbers. (2)

1.3 Consider binary numbers $X = 100000_2$ and $Y = 111_2$

1.3.1 Write X and Y in decimal form. (2)

1.3.2 Next, determine $(X - Y)$ in binary form. (2)

[24]

QUESTION 2

2.1 Solve for $x \in \mathbb{R}$, WITHOUT using a calculator

2.1.1 $\frac{1}{x^2} = 4$ (4)

2.1.2 $\frac{1}{x^2} = 4$ (5)

2.1.3 $\log_2 8 = -1$ (3)

2.1.4 $\frac{1}{x^2} = 4$ (7)

2.2 Show that:

$5 \cdot 2^{2x-3} + 2^{2x-3} = \frac{1}{2^{2x-3}}$ (5)

Mathematics June Exam Grade 11 Paper 1

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Mathematics June Exam Grade 11 Paper 1:

Resources in Education ,2001-04 GCSE Maths David Bowles,Paul Metcalf,2002 Written specifically for the Foundation and Intermediate tier GCSE for the AQA Modular GCSE Specification B This clearly presented book will help all students looking to achieve a grade C in GCSE maths An ideal stand alone resource for students doing the GCSE course in one year including students resitting modules Go to School, You're a Little Black Boy Lincoln Alexander,2010-01-07 Among the important stories that need to be told about noteworthy Canadians Lincoln Alexander s sits at the top of the list Born in Toronto in 1922 the son of a maid and a railway porter Alexander embarked on an exemplary life path that has involved military service for his country a successful political career a thriving law career and vocal advocacy on subjects ranging from antiracism to the importance of education In this biography Shoveller traces a remarkable series of events from Alexander s early life to the present that helped shape the charismatic and influential leader whose impact continues to be felt today From facing down racism to challenging the postwar Ontario establishment becoming Canada s first black member of Parliament entertaining royalty as Ontario s lieutenant governor and serving as chancellor of one of Canada s leading universities Alexander s is the ultimate uplifting Canadian success story the embodiment of what defines Canada **Private Secondary Schools** Peterson's,2011-05-01 Peterson s Private Secondary Schools is everything parents need to find the right private secondary school for their child This valuable resource allows students and parents to compare and select from more than 1 500 schools in the U S and Canada and around the world Schools featured include independent day schools special needs schools and boarding schools including junior boarding schools for middle school students Helpful information listed for each of these schools include school s area of specialization setting affiliation accreditation tuition financial aid student body faculty academic programs social life admission information contacts and more Also includes helpful articles on the merits of private education planning a successful school search searching for private schools online finding the perfect match paying for a private education tips for taking the necessary standardized tests semester programs and understanding the private schools admission application form and process Report of the Federal Security Agency United States. Office of Education,1896 Competition Science Vision ,2002-06 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue *Report of the Commissioner of Education* United States. Office of Education,1896 **Current Index to Journals in Education** ,1990 **Annual Report of the Department of the**

Interior United States. Department of the Interior, 1896 **The City Record** New York (N.Y.), 1903 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1976 Choosing Students Wayne Camara, Ernest W. Kimmel, 2005-03-23 This volume brings a variety of perspectives to bear on the issue of how higher education institutions can or should choose students during the early part of the 21st century Many of the contributors report on research to develop and validate potential tools to assist those responsible for admission decisions Other contributors however pose broader questions about the nature of selective admissions about institutional responses to the changing demography of those seeking to enter higher education or about the appropriate criteria of success in higher education The volume is particularly timely because the question of how changes in admission tools and processes will affect campus diversity following the recent Supreme Court decision concerning the University of Michigan Diversity is an important concern of all of the contributors and the chapter by Lee Bollinger President at Michigan at the time the court cases were filed is particularly relevant This book brings together the research that underlies a variety of proposed approaches to improving the selection of students Providing support for the integrity of the admissions process and the validity of new tools to help a higher education institution to select a diverse student body this book explores the implications of the assessment component of K 12 school reform for higher education admissions practices The diverse contributions to this volume reflect the current ferment in educational research and educational practice as institutions of higher education seek to develop a new admissions paradigm for coming decades following the University of Michigan decisions This book is intended for those leaders and professionals who set admission policies and practices in American colleges and graduate and professional schools as well as for those scholars and scientists who research develop and validate tools for use in the process of choosing students in ways that are congruent with an institution s mission values and goals *The Journal of Education* ,1892

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