

**Mathematics**

*Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.*

**Time: 3 hrs.**

**Full Marks: 100**

**Pass Marks: 35** (For partial students only)

**Attempt all questions.**

**Group 'A'**

**5 × 3 × 2 = 30**

1. a. Find the truth value of the biconditional statement of  $p$  and  $q$  where  $p$  represents '2 is an even number' and  $q$  represents '4 is an even number'.  
b. If  $f: \mathbb{R} \rightarrow \mathbb{R}$  be defined by  $f(x) = 2x - 3$ , find  $f^{-1}$   
c. Test the even or odd nature and symmetricity of the function  $y = 8x^2$
2. a. Express  $\tan^{-1}x$  in terms of inverse of sin function.  
b. Prove by mathematical induction:  $1 + 3 + 5 + \dots + (2n - 1) = n^2$   
c. Find the adjoint of the matrix  $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve:  $3x + 2y + 9 = 0$ ,  $2x - 3y + 6 = 0$   
b. Express  $\sqrt{3} + i$  in polar form.  
c. If one root of the equation  $ax^2 + bx + c = 0$  be twice the other, show that  $2b^2 = 9ac$
4. a. Find the equation of the straight line that has  $y$ -intercept '2' and is parallel to  $4x - 8y + 3 = 0$   
b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.  
c. Evaluate:  $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

**Contd...**

# Mid Year Maths Paper Grade 11

**Yicheng Fang**



## **Mid Year Maths Paper Grade 11:**

*Maths Handbook and Study Guide Grade 11* Kevin Smith, 2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back

**Resources in Education**, 1997 **Mathematical Subjects** Fiona Walls, 2009-08-10 Teaching and learning mathematics is a political act in which children teachers parents and policy makers are made visible as subjects As they learn about mathematics children are also learning about themselves who they are who they might become We can choose to listen or not to what children have to say about learning mathematics Such choices constitute us in relations of power Mathematical know how is widely regarded as essential not only to the life chances of individuals but also to the health of communities and the economic well being of nations With the globalisation of education in an increasingly market oriented world mathematics has received intensified attention in the first decade of the twenty first century with a shifting emphasis on utilitarian aspects of mathematics This is reflected in the reconceptualisation of mathematical competence as mathematical literacy loosely conceived as those ways of thinking reasoning and working mathematically that allow us to engage effectively in everyday situations in many occupations and the cut and thrust of world economies as active empowered and participatory citizens It is no surprise then that mathematics has become one of the most politically charged subjects in primary school curricula worldwide We are experiencing an unprecedented proliferation of regional and national strategies to establish benchmarks raise standards enhance achievement close gaps and leave no child behind in mathematics education Industries have sprung up around the design administration and monitoring of standardised assessment to measure and compare children s mathematical achievement against identified benchmarks and each other

*Exceptionally Gifted Children* Miraca U. M. Gross, 2003-12-16 *Exceptionally Gifted Children* is unique The first edition of this book published in 1993 introduced 15 remarkable children some of the most gifted young people ever studied and traced their path through school exploring their academic achievements and in some cases enforced underachievement their emotional development their social relationships and their family relationships and upbringing This new edition reviews these early years but also follows the young people over the subsequent ten years into adulthood No previous study has traced so closely and so sensitively the intellectual social and emotional development of highly gifted young people This 20 year study reveals the ongoing negative academic and

social effects of prolonged underachievement and social isolation imposed on gifted children by inappropriate curriculum and class placement and shows clearly the long lasting benefits of thoughtfully planned individual educational programs The young adults of this study speak out and show how what happened in school has influenced and still influences many aspects of their lives Miraca Gross provides a clear practical blueprint for teachers and parents who recognise the special learning needs of gifted children and seek to respond effectively **The Educational year book. [5 issues].** ,1879 *Resources in Education* ,1997 **Commonwealth Universities Yearbook** ,1922 *Elementary and Middle School Mathematics* John A. Van de Walle,2007 This leading K 8 math methods book has the most coverage of the NCTM standards the strongest coverage of middle school mathematics and the highest student approval of any math methods book currently available *Elementary and Middle School Mathematics* provides an unparalleled depth of ideas and discussion to help readers develop a real understanding of the mathematics they teach John Van de Walle one of the foremost experts on how children learn mathematics finds that 80 percent of the students who purchase this book keep it for reference when they begin their professional teaching careers This book reflects the NCTM Principles and Standards and the benefits of constructivist or student centered mathematics instruction Improvements for the sixth edition include sections on planning for a diverse classroom and a completely new section addressing planning in a classroom where there are English language learners *The Times Index* ,2011 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement **Gas Journal** ,1927 **Journal of Gas Lighting and Water Supply** ,1925 *The Schoolmasters' Yearbook & Educational Directory* ,1915 *The Gas Engineer's Magazine* ,1926 *Instruction papers* International correspondence schools,1903 *Journal of Gas Lighting* ,1927 *Railway News, Finance and Joint-stock Companies' Journal* ,1895 *The Commercial & Financial Chronicle and Hunt's Merchants' Magazine* ,1880 **Back to the Blackboard** Peroshni Govender,Steven Gruz,2004 This report is the first in the NEPAD POLICY FOCUS series which identifies key priorities for Africa stimulates innovative thinking and tackles critical elements of the NEPAD agenda to promote public debate about the continent s future The report highlights the challenges in African education and encourages governments to start planning and expanding their secondary education sector *Current Index to Journals in Education* ,1994 *A Light at the End of the Tunnel* Sumaiya Beshir,2007 The book features a collection of short stories written by Muslim teens Through their stories they share the struggles and experiences they have faced on issues such as dating friendship hijab respecting parents clarifying misconceptions about Islam and defining one s identity Provided by publisher

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web jan 1 2014 this is the same book used to train for the texas cpo class and cost less it has everything you need to know to properly take care of a pool professionally