

**GRADE 12 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

1.1 Solve for x

1.1.1 $x^2 - 9x + 20 = 0$ (3)

1.1.2 $x(x + 3) - 1 = 0$ (correct to 2 decimal points) (3)

1.1.3 $x^2 + 7x < 0$ (3)

1.1.4 $2x^{\frac{2}{3}} = 64$ (4)

1.2 Solve simultaneously for x and y if:

$2x - y = 8$, and
 $x^2 - xy + y^2 = 19$ (7)

1.3 Solve the expression below without the use of a calculator:

$$\frac{\sqrt[3]{4} + \sqrt[3]{2}}{\sqrt[3]{16}}$$
 (4)

QUESTION 2

2.1 The terms p , $(2p + 2)$, $(5p + 3)$ form an arithmetic sequence.

Determine:

2.1.1 The value of p . (4)

2.1.2 The rule in the form of $a_n = a + (n - 1)d$. (2)

2.1.3 The 15th term of the sequence. (4)

2.2 x , y , 81 is a geometric sequence.
And $y = 2x - 5$
All terms in the sequences are integers.
Calculate the values of x and y . (10)

[24]

QUESTION 3

Given the sequence 2, 8, 10, 14,

3.1 What type of sequence is this? Justify your answer by calculation. (2)

3.2 Calculate T_{10} . (3)

3.3 Which term has a value of 322? (3)

3.4 Determine by calculation if 1204 is a term in the sequence? (4)

[12]

QUESTION 4

The sketch below shows the graph of $f(x) = \frac{-1}{x+5} + 4$. The asymptotes of f intersects at $B(-1; y)$. The Point $D(5; 4)$ is a point on the graph.



4.1 Determine the value of p . (1)

4.2 Prove that $q = 5$. (2)

4.3 Calculate the x -intercept of f . (2)

4.4 Determine the equation of the vertical asymptote of h if $h(x) = f(x + 4)$. (2)

4.5 One of the symmetry axes of f is an increasing function. Determine the equation of the symmetry axis. (3)

4.6 Give the values x for $f(x) \geq x + 6$. (2)

4.7 Determine the equation of g , the reflection of f in the x -axis and move two units to the right. (3)

[15]

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Mathematical Intelligence Mubeen Junaid, 2022-11-01 A fresh exploration into the human nature versus technology argument revealing an unexpected advantage that humans have over our future robot masters we re actually good at mathematics There s so much discussion about the threat posed by intelligent machines that it sometimes seems as though we should simply surrender to our robot overlords now But Junaid Mubeen isn t ready to throw in the towel just yet As far as he is concerned we have the creative edge over computers because of a remarkable system of thought that humans have developed over the millennia It s familiar to us all but often badly taught in schools and misrepresented in popular discourse math Computers are of course brilliant at totting up sums pattern seeking and performing mindless tasks of well computation For all things calculation machines reign supreme But Junaid identifies seven areas of intelligence where humans can retain a crucial edge And in exploring these areas he opens up a fascinating world where we can develop our uniquely human mathematical talents Just a few of the fascinating subjects covered in MATHEMATICAL INTELLIGENCE include Humans are endowed with a natural sense of numbers that is based on approximation rather than precise calculation Our in built estimation skills complement the precision of computers Interpreting the real world depends on both What sets humans apart from other animals is language and abstraction We have an extraordinary ability to create powerful representations of knowledge more diverse than the binary language of computers Mathematics confers the most robust logical framework for establishing permanent truths Reasoning shields us from the dubious claims of pure pattern recognition systems All mathematical truths are derived from a starting set of assumptions or axioms Unlike computers humans have the freedom to break free of convention and examine the logical consequences of our choices Mathematics rewards our imagination with fascinating and on occasion applicable concepts that originate from breaking the rules Computers can be tasked to solve a range of problems but which problems are worth the effort Questioning is as vital to our repertoire of thinking skills as problem solving itself

Hirji: Growing Up With Tanzania ,2023-04-05 In Growing up with Tanzania Karim Hirji a renowned Professor of Medical Statistics and Fellow of the Tanzania Academy of Science presents a multi faceted evocative portrait of his joyous but conflicted passage to adulthood during colonial and early Uhuru Tanzania His smooth style engages the reader with absorbing true tales cultural currents critical commentary and progressive possibilities By vibrantly contrasting the hope filled sixties with the cynical modern era he also lays bare the paradoxes of personal life and society past and present

Mathematics and Transition to School Bob Perry, Amy MacDonald, Ann Gervasoni, 2015-01-09 This edited book brings together for the first time an international collection of work focused on two important aspects of any young child s life learning mathematics and starting primary or elementary school The chapters take a variety of perspectives and integrate these two components in sometimes explicit and sometimes more subtle ways The key issues and themes explored in this book are the mathematical and other strengths that all participants in the transition to school bring to this period of a

child's life the opportunities provided by transition to school for young children's mathematics learning the importance of partnerships among adults and among adults and children for effective school transitions and mathematics learning and teaching the critical impact of expectations on their mathematics learning as children start school the importance of providing children with meaningful challenging and relevant mathematical experiences throughout transition to school the entitlement of children and educators to experience assessment and instructional pedagogies that match the strengths of the learners and the teachers the importance for the aspirations of children families communities educators and educational organisations to be recognised as legitimate and key determinants of actions experiences and successes in both transition to school and mathematics learning and the belief that young children are powerful mathematics learners who can demonstrate this power as they start school In each chapter authors reflect on their work in the area of mathematics and transition to school place that work within the overall context of research in these fields predict the trajectory of this work in the future and consider the implications of the work both theoretically and practically

The Mathematics Education for the Future Project. Proceedings of the 13th International Conference Mathematics Education in a Connected World

Alan Rogerson, 2015-07-01 This volume contains the papers presented at the International Conference on Mathematics Education in a Connected World held from September 16-21 2015 in Catania Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986

Mathematics Education in Singapore Tin Lam Toh, Berinderjeet Kaur, Eng Guan Tay, 2019-02-07 This book provides a one stop resource for mathematics educators policy makers and all who are interested in learning more about the why what and how of mathematics education in Singapore The content is organized according to three significant and closely interrelated components the Singapore mathematics curriculum mathematics teacher education and professional development and learners in Singapore mathematics classrooms Written by leading researchers with an intimate understanding of Singapore mathematics education this up to date book reports the latest trends in Singapore mathematics classrooms including mathematical modelling and problem solving in the real world context

Singapore Math and Science Education Innovation

Oon Seng Tan, Ee Ling Low, Eng Guan Tay, Yaw Kai Yan, 2021-08-04 This edited volume explores key areas of interests in Singapore math and science education including issues on teacher education pedagogy curriculum assessment teaching practices applied learning ecology of learning talent grooming culture of science and math vocational education and STEM It presents to policymakers and educators a clear picture of the education scene in Singapore and insights into the role of math and science education in helping the country excel beyond international studies such as PISA the pedagogical and curricula advancements in math and science learning and the research and practices that give Singaporean students the competitive edge in facing the uncertain and challenging landscape of the future

Policy Making in Britain Peter Dorey, 2014-04-22 Introducing you to the public policy making process in Britain today this book adopts an empirical

approach to the study of policy making by relating theory to actual developments in Britain since the 1980s It covers Ideas Problem Definition Issues and Agenda Setting Key Individuals Key Institutions Parliament and Public Policy Implementation The shift from Government to Governance including marketization and devolution The increasing role of the private and voluntary sectors in policy delivery Internationalisation and Europeanization of policies and policy making Evaluation audits and the New Public Management Each chapter is enriched by recent real life case studies and boxes illustrating key arguments concepts and empirical developments Taking into account the 2010 election and beyond the book addresses current issues developments and debates The result is a contemporary and engaging text that will be required reading for all students of British politics public policy and public administration

[Six Capitals, or Can Accountants Save the Planet?: Rethinking Capitalism for the Twenty-First Century](#) Jane Gleeson-White, 2015-02-25 A timely and fascinating account of the revolution going on in the world of finance from the acclaimed author of Double Entry This is the story of a twenty first century revolution being led by the most unlikely of rebels accountants Only the second revolution in accounting since double entry bookkeeping began it is of seismic proportions driven by the 2008 financial crash and our ongoing environmental crisis The changes it will wreak are profound and far reaching and not only will transform the way the world does business but also will alter the nature of capitalism While the wealth of nations and corporations has been vital to the global economy increasingly the world is coming to realize that such endless growth is limited by the earth's resources and comes at a huge price to the planet and to human well being It simply cannot be sustained This revolution demands that we go beyond merely accounting for traditional financial and industrial capital and take account of the benefits and detriments to the natural world and society It urges us to include four new categories of wealth intellectual such as intellectual property human skills productivity and health social and relationship shared norms and values and natural environment Making them part of our financial statements and GDP figures may be the only way to address the many calamities we face Just two years ago this revolution seemed idealistic and unlikely Today it is quickly unfolding In 2012 the sea change year two key initiatives took root an international movement to transform how corporate accounting is calculated and the rise of incorporating the effects on the environment to the accounting of national and global economies Six Capitals tells the story of this coming new age in capitalism evaluating its promise and the disaster that lies ahead if it is not implemented

[Messy Maths](#) Juliet Robertson, 2017-07-12 In Messy Maths A Playful Outdoor Approach for Early Years Juliet Robertson offers a rich resource of ideas that will inspire you to tap into the endless supply of patterns textures colours and quantities of the outdoors and deepen children's understanding of maths through hands on experience Juliet believes being outside makes maths real In the classroom environment maths can seem disconnected from everyday reality but real maths is really messy Lots of outdoor play and engaging activity along the way is a must as being outside enables connections to be made between the hands heart and head and lays the foundations for more complex work as children grow develop and learn Following on from the success

of Dirty Teaching ISBN 978 178135107 9 Messy Maths reimagines the outdoor space through a mathematical lens providing a treasure trove of suggestions that will empower you to blend outdoor learning into your teaching practice It is not a how to guide but rather an easy to use reference book replete with ready to use games and open ended ideas designed to help children become confident and skilled in thinking about using and exploring abstract mathematical concepts as they play outside Many of these ideas and activities are also beautifully displayed in full colour photographs throughout the book making it even easier to jump straight into outstanding outdoor learning opportunities Topics covered include general advice exploring numbers number functions and fractions money measurement time pattern shape and symmetry position direction and movement data handling routines and the mathematical garden Each chapter features a section on topic specific vocabulary and expressions to help you integrate terminology into each area of study while suggestions for embedding maths into routines are also provided to assist in the development of creative progressive and flexible approaches to everyday situations Messy Maths is suitable for early years educators of ages 3 to 6 who want to shake up their usual classroom practice and make the most of any outdoor space whether this be a nursery playgroup child minder s back garden or a nature kindergarten as a context for maths Messy Maths has been named the Gold Winner in the Mathematics category of the Nursery World Equipment Resources Awards 2019 Messy Maths has been named the Silver Winner in the Outdoor Play category and Professional Books and authors category of the Nursery World Equipment Resources Awards 2019 Messy Maths was a 2017 Foreword INDIES Finalist in the Education category Messy Maths has been named a Gold Winner in the IBPA Benjamin Franklin Awards 2018 in the Education category Messy Maths is a finalist in the 2018 Education Resources Awards in the Educational Book Award category

Rescue Ian Goldin, 2021-05-13 An optimistic vision of the future after Covid 19 by a leading professor of globalisation at the University of Oxford Covid 19 left us at a crossroads should we go back to normal or use the lessons learned during the pandemic to shape a new society But what does life after a pandemic look like and how do we build a better more hopeful future Ian Goldin Professor of Development and Globalisation at the University of Oxford provides an urgently needed roadmap that reveals how the pandemic could lead to a better world from globalisation to the future of jobs income inequality and climate change *Rescue* is a bold call for an optimistic future and one we all have the power to create

ICT and Society Kai Kimppa, Diane Whitehouse, Tiina Kuusela, Jackie Phahlamohlaka, 2014-07-25 This book constitutes the refereed proceedings of the 11th IFIP TC 9 International Conference on Human Choice and Computers HCC11 2014 held in Turku Finland in July August 2014 The 29 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are based on both academic research and the professional experience of information technologists working in the field They have been organized in the following topical sections society social responsibility ethics and ICT the history of computing and its meaning for the future peace war cyber security and ICT and health care well being and ICT

The Future of Digital Communication Raquel V. Benítez

Rojas,2023-08-31 This collection of essays explores the present and future of digital communication through a range of interdisciplinary approaches all of which focus on the so called metaverse The metaverse is a combination of multiple elements of technology including virtual reality augmented reality and video where users live within a digital universe The vision for this new universe is that its users can work play and stay connected with friends through everything Such a vision is hinted at in existing phenomena such as online game universes

Identifying, Assessing and Supporting Learners with Dyscalculia Kathleen Kelly,2020-07-13 Online Resources are open access No code is required It is vital to understand the challenges and provide the right support for learners with dyscalculia and specific learning difficulties in mathematics The book provides an overview of current research explaining the nature and causation of dyscalculia guidance on the identification of dyscalculia examples of how to carry out informal and formal assessments an explanation of the principles of multisensory mathematics teaching an outline of a structured programme for learners aged 5 14 together with examples of lesson planning and activities Designed for teachers specialising in the assessment and teaching of learners with dyscalculia and those undertaking courses leading to Approved Teacher Dyscalculia ATD and Associate Membership of the British Dyslexia Association AMBDA the book is useful to any professional looking for an understanding of this area of specific difficulty

HC 712 - The Work of the Immigration Directorates (January - June 2014) Great Britain. Parliament. House of Commons. Home Affairs Committee,2014 In 1998 the previous government abolished exit checks paper based embarkation records of passengers departing from the UK because they were too resource intensive Those universal exit checks were replaced by an intelligence led approach using CCTV and greater liaison between border agencies port operators and transport carriers This approach was subsequently superseded by the e Borders programme announced in February2005 The e Borders programme has stalled and was terminated in March 2014 and that the Home Office would bereplacing individual systems such as the Warnings Index and Semaphore separately At the moment data for air passengers travelling in and out of the UK is sourced from carrier lists known as Advanced Passenger Information API Air passengers buy tickets in advance and check in a reasonable time before departure so API coverage is good about 80% and increasing Coverage is not so good for rail and ferry passengers partly because of the ticketing systems and partly because customers can decide to travel buy a ticket and have checked in at a time near to departure Both the Minister and the Director General of Border Force have assured the Committee that 100% exit checks will be in place by 31st March 2015 To deliver exit checks the Home Office needs to find a mechanism that can count all of the rail and maritime passengers as they depart the UK by the end of March Exit checks will be carried out by the transport operators staff not Border Force The Committee hope this can be delivered

Simultaneous Identities Uma Pradhan,2020-12-03 The recent socio political changes in Nepal have brought assimilationist notions of Nepali nationalism under a tight scrutiny and drawn attention to more plural inclusive and diverse notions of Nepaliness However both assimilationist and pluralist visions continue to remain normative

in their approach and often posit ethnic and national identity in opposition to each other Drawing on the everyday practices in the two schools this book illustrates that social actors in minority language education did not necessarily select between minority identity and national identity but instead made simultaneous claims to more than one social identity by discursively positioning ethnic identity as national identity It builds on the notion of simultaneity to illustrate that it is through the unresolved co presences of apparently contradictory ways that people maintain their multi layered identities By arguing for an analytical necessity to adopt relational approach it aims to complicate the neat compartmentalisation of identities

STEM Education: An Emerging Field of Inquiry ,2018-11-01 The second decade of the 21st century has seen governments and industry globally intensify their focus on the role of science technology engineering and mathematics STEM as a vehicle for future economic prosperity Economic opportunities for new industries that are emerging from technological advances such as those emerging from the field of artificial intelligence also require greater capabilities in science mathematics engineering and technologies In response to such opportunities and challenges government policies that position STEM as a critical driver of economic prosperity have burgeoned in recent years Common to all these policies are consistent messages that STEM related industries are the key to future international competitiveness productivity and economic prosperity This book presents a contemporary focus on significant issues in STEM teaching learning and research that are valuable in preparing students for a digital 21st century The book chapters cover a wide spectrum of issues and topics using a wealth of research methodologies and methods ranging from STEM definitions to virtual reality in the classroom multiplicative thinking STEM in pre school primary secondary and tertiary education opportunities and obstacles in STEM inquiry based learning in statistics values in STEM education and building academic leadership in STEM The book is an important representation of some of the work currently being done by research active academics It will appeal to academics researchers teacher educators educational administrators teachers and anyone interested in contemporary STEM Education related research in a rapidly changing globally interconnected world Contributors are Natalie Banks Anastasios Tasos Barkatsas Amanda Berry Lisa Borgerding Nicky Carr Io Keong Cheong Grant Cooper Jan van Driel Jennifer Earle Susan Fraser Noleine Fitzallen Tricia Forrester Helen Georgiou Andrew Gilbert Ineke Henze Linda Hobbs Sarah Howard Sylvia Sao Leng Jeong Chunlian Jiang Kathy Jordan Belinda Kennedy Zsolt Lavicza Tricia McLaughlin Wendy Nielsen Shalveena Prasad Theodosia Prodromou Wee Tiong Seah Dianne Siemon Li Ping Thong Tessa E Vossen and Marc J de Vries

Examcart NDA/NA Maths & GAT 36 Chapter-wise Solved Papers for 2024 Exam in English Examcart Experts,
Operations and Process Management Nigel Slack,Alistair Brandon-Jones,2018-02-13 Written by best selling authors in their field the fifth edition of Operations and Process Management inspires a critical and applied mastery of the core principles and process which are fundamental to successfully managing business operations Approaching the subject from a managerial perspective this innovative text provides clear and concise coverage of the nature principles and practice of

operations and process management *J. L. Austin* M. W. Rowe, 2023 J L Austin was one of the most influential philosophers of the twentieth century but also an intelligence officer in the Second World War This revelatory biography explores Austin's complex character his remarkable achievements in war and peace and the surprisingly dramatic events in his personal life

Disorder and the Disinformation Society Jonathan Paul Marshall, James Goodman, Didar Zowghi, Francesca da Rimini, 2015-04-17 This book is the first general social analysis that seriously considers the daily experience of information disruption and software failure within contemporary Western society Through an investigation of informationalism defined as a contemporary form of capitalism it describes the social processes producing informational disorder While most social theory sees disorder as secondary pathological or uninteresting this book takes disordering processes as central to social life The book engages with theories of information society which privilege information order offering a strong counterpoint centred on disinformation Disorder and the Disinformation Society offers a practical agenda arguing that difficulties in producing software are both inherent to the process of developing software and in the social dynamics of informationalism It outlines the dynamics of software failure as they impinge on information workers and on daily life explores why computerized finance has become inherently self disruptive asks how digital enclosure and intellectual property create conflicts over cultural creativity and disrupt informational accuracy and scholarship and reveals how social media can extend but also distort the development of social movements

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