GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1

QUESTION 1

1.1 Solve for x:

   1.1.1 $x^2 - 5x - 6 = 0$ (2)

   1.1.2 $(2x - 3)(x + 1) = 9$ (3)

   1.1.3 $x - \sqrt{x - 1} = 3$ (4)

   1.1.4 $x(x + 10) > -25$ (4)

   1.1.5 $x^{\frac{2}{3}} = 4$ (3)

   1.1.6 $2^{2x} - 4^{x-2} = 12$ (4)

1.2 Simultaneously solve x and y:

   $2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (6)

1.3 Solve the following inequalities:

   1.3.1 $x^2 + 5x - 6 > 0$ (3)

   1.3.2 $-3(x + 1)(x - 2) < 0$ (3)

                                         [31]

QUESTION 2

2.1 $x = -3 \pm 2\sqrt{7}$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$.   (5)

2.2 Given: $g(x) = \dfrac{x^2 - 2x + 1}{x - x}$

   2.2.1   For which values of x will $g(x)$ be undefined.   (2)

   2.2.2   Explain why $g(x)$ will never equal zero. (Show all your calculations).   (3)

2.3 Solve x if : $\dfrac{2x}{x + 3} < 6$. Graphically represent your answer.   (5)

2.4 Simplify and leave an answer with positive exponents only:

   $\sqrt{\dfrac{y^3 \cdot y^{n+1}}{2^{2n+2}}}$ (4)

2.5 Without solving the equation, determine the nature of the roots of: $4x^2 = 2x + 1$ (5)

                                           [34]

QUESTION 3

3.1 The first three terms of a linear series, is given as: $3x - 2; x + 9; 2x + 5$

   3.1.1   Determine the value of x.   (3)

   3.1.2   Determine the numerical value of T_4.   (2)

3.2 Given the quadratic series: $-128; -94; -46; -29; \ldots$

   3.2.1   Determine the next two terms of the series.   (2)

   3.2.1   Determine T_n, the general term of the pattern.   (3)

   3.2.3   Given that $T_n = -4n^2 + 54n - 188$, determine the largest **possible** numerical value for T_n.   (4)

3.3 Given $T_n = 13 - 3n$:

   3.3.1   Which term in the series would be equal to -179.   (3)

   3.3.2   Determine the numerical value for the 11th term.   (2)

3.4 James and John look at the following patterns:

   Pattern 1   Pattern 2   Pattern 3

James says if he increases the pattern number by one, square that number and then subtract the pattern number increased by one he will get the general formula.

John says he can derive the general formula for the number of blocks by taking the number of columns in each pattern and multiplying it by the number of rows.

Who is correct between James and John? Prove your answer.   (5)

                                           [24]

QUESTION 4

Given: $f(x) = \dfrac{-3}{x + 2} - 1$ and $g(x) = -a^x$. The point $(1; -3)$ lies on g.

4.1 Determine the value of a.   (2)

4.2 Draw a neat sketch of the two graphs on the same axis. Show all intercepts with the axes and asymptote clearly.   (5)

4.3 Determine the axis of symmetry of f that has a positive gradient.   (2)

                                           [9]

Nmaths Questions Papers And Memos

Mark Steyvers

Nmaths Questions Papers And Memos:

Xkit undergraduate Maths for Scientists and Engineers ,2007   **Oswaal CBSE Class 12th 20 Combined Sample Question Papers Science Stream PCM (Physics, Chemistry, Maths, English Core) and 10 Previous Years' Solved Papers Yearwise (2013-2023) (Set of 2 Books) For 2024 Board Exams** Oswaal Editorial Board,2023-10-28 Description of the Product Comprehensive Coverage Covers all Major subjects Concise Crisp with Mind Maps Revision Notes Curriculum Alignment 4 5 sets of Sample Papers to stimulate exam pattern format 100% Updated with the Latest CBSE Board Paper 2023 Valuable Exam Insights with Out of Syllabus Questions highlighted 100% Exam readiness with Commonly Made Errors and Answering Tips Concept Clarity with Topper s and Board Marking Scheme Answers   **Xkit Undergraduate Maths for Business** ,2005   **For the Learning of Mathematics** ,1998   Educamus ,1986   Educart ISC 10 Years Solved Papers Class 12 for 2025 Science Stream - Physics, Chemistry, Maths, Biology, English Language & Literature, Computer Application, Physical Education and Hindi (Strictly Based on 2024-25 CISCE Syllabus) Educart,2024-09-17 What You Get 50% Competency based Q s Educart ISC 10 Years Solved Papers Class 12 for 2025 Science Stream Physics Chemistry Maths Biology English Language Literature Computer Application Physical Education and Hindi Strictly Based on 2024 25 CISCE SyllabusIncludes detailed explanations for objective based questionsIncludes 10 years of subject wise latest pattern solved ISC papers Caution points and related theory for concept clarity Why choose this book New sample papers help prepare as per the revised pattern on an increased percentage of analytical questions   *X-Kit Undergraduate Stats for Business* ,2005

An Atlantic Crossing? Martin Lawn,2008-05-12 This book focuses on the International Examinations Inquiry IEI an international well funded scientific project that operated in the 1930s attracting key world figures in educational research and which undertook significant exchanges of data Originally involving the USA Scotland England France Germany and Switzerland the IEI grew to include Norway Sweden and Finland Funded by Carnegie money these researchers included major comparative educationalists New Education Fellowship academics statisticians and educational psychologists They met at a significant time in the emergence of international scientific work in educational research between the USA and Europe they were a midway stage between earlier individual contacts by well travelled researchers usually towards North America and the development of joint research projects sustained over time The focus of the IEI was on methods of examining pupils for the coming expansion of secondary education but their key problems were to do with establishing standardized methods of measurement international scholarly communication and comparative understandings of national diversity The IEI researchers acted to support national achievements and strategies within the borders of the nation and internationally to exchange methods and results In retrospect they appear to be visible in their knowledge communities and national education histories but invisible in their internationalism   **Paperbound Books in Print** ,1982   **Resources in Education** ,1982

The Hungarian Girl Trap Ray Dexter,2006-07-01 Boy meets girl Boy is English girl Hungarian boy has a good job at a

very well known boarding school in England girl is an au pair who wants to get back to Hungary as soon as possible Boy descovers he knows a man who is running an International school in Hungary and he is desperate for boy to work for him Boy decides you can t fight that sort of coincidence chucks in the good job at the well known boarding school and follows the girl to Budapest This is a book about real life in one of Europe s most fascinating cities Ray Dexter shows us deep inside the Hungarian soul and also inside the minds of the expats who have also ended up in the Hungarian Girl Trap P 4 of cover

The Altruism Equation Lee Alan Dugatkin,2022-11-29 In a world supposedly governed by ruthless survival of the fittest why do we see acts of goodness in both animals and humans This problem plagued Charles Darwin in the 1850s as he developed his theory of evolution through natural selection Indeed Darwin worried that the goodness he observed in nature could be the Achilles heel of his theory Ever since then scientists and other thinkers have engaged in a fierce debate about the origins of goodness that has dragged politics philosophy and religion into what remains a major question for evolutionary biology The Altruism Equation traces the history of this debate from Darwin to the present through an extraordinary cast of characters from the Russian prince Petr Kropotkin who wanted to base society on altruism to the brilliant biologist George Price who fell into poverty and succumbed to suicide as he obsessed over the problem In a final surprising turn William Hamilton the scientist who came up with the equation that reduced altruism to the cold language of natural selection desperately hoped that his theory did not apply to humans Hamilton s Rule which states that relatives are worth helping in direct proportion to their blood relatedness is as fundamental to evolutionary biology as Newton s laws of motion are to physics But even today decades after its formulation Hamilton s Rule is still hotly debated among those who cannot accept that goodness can be explained by a simple mathematical formula For the first time Lee Alan Dugatkin brings to life the people the issues and the passions that have surrounded the altruism debate Readers will be swept along by this fast paced tale of history biography and scientific discovery   Educational Research and Innovation Is Education Losing the Race with Technology? AI's Progress in Maths and Reading OECD,2023-03-28 Advances in artificial intelligence AI are ushering in a large and rapid technological transformation Understanding how AI capabilities relate to human skills and how they develop over time is crucial for understanding this process   Scientific and Technical Aerospace Reports ,1993   To Halt Or Not To Halt? That Is The Question Cristian S Calude,2024-03-20 This is a book about the Halting Problem arguably the most in famous computer related problem can an algorithm decide in finite time whether an arbitrary computer program eventually stops This seems a dull petty question after all you run the program and wait till it stops However what if the program does not stop in a reasonable time a week a year or a decade Can you infer that it will never stop The answer is negative Does this raise your interest If not consider these questions Can mathematics be done by computers only Can software testing be fully automated Can you write an anti virus program which never needs any updates Can we make the Internet perfectly secure Your guess is correct the answer to each question is negative The Halting Problem is hidden in many subjects from logic is

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