

**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 $x(x + 18) > -25$ (4)
- 1.1.5 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^{2x} - 2^{x+1} = 12$ (4)
- 1.2 Simultaneously solve x and y :
- $2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (5)
- 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)
- [P1]**

QUESTION 2

- 2.1 $x = -3 \pm 2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y -intercept is 4. Determine $f(x)$. (5)
- 2.2 Given: $g(x) = \frac{x^2 - 2x + 1}{x - 1}$
- 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 $x \in \mathbb{R} : \frac{2-x}{x+1} < 0$. Graphically represent your answer. (5)

- 2.4 Simplify and leave an answer with positive exponents only:

$$\frac{\sqrt[3]{x^2 y^{2x+1}}}{x^{2x+1}}$$

(4)

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

[P4]

QUESTION 3

- 3.1 The first three terms of a linear series, is given as: $3x - 2, x + 1, 2x + 5$
- 3.1.1 Determine the value of x . (3)
- 3.1.2 Determine the numerical value of T_7 . (2)
- 3.2 Given the quadratic series: $-120, -94, -68, -20, \dots$
- 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 $T_n = -4n^2 + 56n - 180$, 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)

[P4]

QUESTION 4

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

- 4.1 Determine the value of x . (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)

[P1]

Grade1november Maths Paper 1

A Loxley



Grade 11 November Maths Paper 1:

GCSE Mathematics - A Pocket Guide for Re-takers and Adults Mick Price, 2024-05-24 As its title suggests this book by been devised by author Mick Price as an essential guide for those revisiting Mathematics at GCSE level Crafted from years of experience and class tested materials it serves as a unique revision tool tailored for both FE college students and adults seeking to improve their previous grades or refresh long forgotten knowledge Stripping back the complexities of mathematics this book focuses on the fundamentals needed to achieve a grade 4 without overwhelming its readers with the entirety of KS4 content GCSE Mathematics promises accessibility and convenience making it an indispensable companion for both classroom learning and self study Inside you ll find a blend of theoretical essentials practical real life examples and exercises designed for both younger and more mature learners all presented in a straightforward uncondescending manner GCSE Mathematics is not just a book it s a tool for success always within reach *Resources in Education* ,2001-10

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

The Journal of Education ,1919 **Editor & Publisher** ,1925 **Computational Intelligence and Intelligent Systems** Kangshun Li, Jin Li, Yong Liu, Aniello Castiglione, 2016-01-18 This book constitutes the refereed proceedings of the 7th International Symposium on Intelligence Computation and Applications ISICA 2015 held in Guangzhou China in November 2015 The 77 revised full papers presented were carefully reviewed and selected from 189 submissions The papers feature the most up to date research in analysis and theory of evolutionary computation neural network architectures and learning neuro dynamics and neuro engineering fuzzy logic and control collective intelligence and hybrid systems deep learning knowledge discovery learning and reasoning *Complete Book of Colleges, 2005 Edition* Princeton Review (Firm), 2004-07-20 Up to date information on 1 780 colleges and universities **Oswaal ICSE 10 Sample Question Papers Class 10 (Set of 6 Books) Physics, Chemistry, Biology, Maths, English Paper 1 & 2 For 2025 Board Exam (Based On The Latest CISCE/ICSE Specimen Paper)** Oswaal Editorial Board, 2024-09-09 Description of the product Fresh Relevant with the Latest ICSE Specimen Paper 2025 Score Boosting Insights with 450 Questions 250 Concepts approx Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready Practice with 5 Solved 5 Self Assessment Papers with Hints Online Courses with Oswaal 360 Courses and sample Papers to enrich the learning journey further Strictly as per the Latest Syllabus Specimen Paper 2025 Issued by CISCE Includes Competency Focused questions based on Bloom s Taxonomy Create Evaluate Analyse Apply Understand and Remember Official Marking Scheme Decoded **Bulletin of the Atomic Scientists** ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic

Doomsday Clock stimulates solutions for a safer world **The Gas Engineer's Magazine** ,1926 **Helping Children Learn Mathematics, 5th Australian Edition** Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Leicha Bragg, Audrey Cooke, Melissa Fanshawe, Mark Gronow, 2025-10-10 *New Labour's Policies for Schools* Jim Docking, 2012-11-12 A sequel to Jim Docking's National School Policy which examined the Conservative Government's education reforms from 1979 onwards this text reviews New Labour's policies to improve pupils' performance. The contributors examine the evidence concerning standards in schools, look at the main directions of government policy, explore particular policies in detail and provide clear expositions of New Labour's education policies and provide critical examinations of controversial issues **New Labour's Policies for Schools** ,2000 First Published in 2000 Routledge is an imprint of Taylor Francis, an informal company **The Education of Atawe** ,1981 *Working Mother* ,2002-10 The magazine that helps career moms balance their personal and professional lives **Preschool Geometry** Esther Levenson, Dina Tirosh, Pessia Tsamir, 2012-01-01 Recently the issue of early childhood mathematics has come to the fore and with it the importance of teaching geometrical concepts and reasoning from a young age. Geometry is a key domain mentioned in many national curricula and may also support the learning of other mathematical topics such as number and patterns. This book is based on the rich experience, research and practice of the authors and is devoted entirely to the learning and teaching of geometry in preschool. The first part of the book is dedicated to children's geometrical thinking, building concept images in line with concept definitions and the dilemmas that arise in the process. The second part focuses on geometrical tasks and their role in developing and assessing geometrical reasoning. The third part focuses on teaching geometry to young children. Each of the three parts is structured in a similar manner, beginning with general theory and research, continuing with specific examples related to those theories and moving on to elements of actual practice. Written in a meaningful yet enjoyable manner, any person who has an interest in the mathematics education of preschool children, be it parents, caregivers, teachers, teacher educators and researchers, will find this book relevant **The English Baccalaureate** Great Britain: Parliament: House of Commons: Education Committee, 2011-07-28 This report suggests that any new performance or curriculum measures affecting schools should only be implemented after proper consultation with key stakeholders and the wider public, something which didn't happen with the English Baccalaureate (EBac). The Committee says that the Government should also have waited until after the conclusion of the National Curriculum Review before introducing the EBac. They want the Government to deliver on its promise in the White Paper 'The Importance of Teaching' to use performance tables to put greater emphasis on the progress of every child. The report notes that certain academic subjects studied at A level are more valued by Russell Group universities than others but argues that a focus on a fairly narrow range of subjects demanding considerable curriculum time is likely to have negative consequences on the uptake of other subjects. The Committee does not make recommendations on which subjects should or should not be included but rather encourages

the Government to reconsider the EBac s composition when the National Curriculum Review is concluded The Government should confirm how it will monitor the attainment of children on free school meals in the EBac The report also calls for further international evidence to inform debate on the merits of the EBac evidence the inquiry received did not suggest a link in other countries between the prescribed study of certain academic subjects and improved attainment and prospects for poorer students Elsewhere the report argues that the current arrangements for certification of the EBac should be shelved as should calls for a Technical Baccalaureate to sit alongside the existing award

Ebony ,2005-09 EBONY is the flagship magazine of Johnson Publishing Founded in 1945 by John H Johnson it still maintains the highest global circulation of any African American focused magazine *Daily Graphic* Sam Clegg,1992-11-04

Primary Mathematics for Trainee Teachers Marcus Witt,2014-11-19 With chapter sequencing following the new Curriculum this book supports trainee Primary school teachers to make use of the opportunities presented in the new National Curriculum for effective and engaging Mathematics teaching Covering all of the areas of the new Curriculum for primary mathematics and offering insight into effective teaching this book helps students connect what they need to teach with how it can be taught Exploring opportunities in the new curriculum for creative and imaginative teaching it shows readers how to capitalize on opportunities to develop children s reasoning and problem solving skills It explores how to make links between mathematics and children s lived experiences to enhance their learning and enables trainees to develop an ability to plan with discernment making the most of existing thinking and research as well as building confidence in adapting and customizing ideas Includes the full National Curriculum Programme of Study for Maths key stages 1 and 2 as a useful reference for trainee teachers Other books in this series include Primary English for Trainee Teachers

Ignite the flame of optimism with is motivational masterpiece, **Grade1november Maths Paper 1** . In a downloadable PDF format (PDF Size: *), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

<https://staging.conocer.cide.edu/files/detail/default.aspx/Holum%20Laboratory%20Manual%20For%20Fundament.pdf>

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