

**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:

$$\frac{x^2 + x^{2+1}}{x^{2+1} + x}$$

(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_4 . (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)

[P]

Maths Paper 20standard Grade And Memorandum

**Great Britain. Parliament. House of
Commons. Children, Schools and
Families Committee**

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Public Papers of the Presidents of the United States, William J. Clinton: Jan. 20-July 31, 1993. bk. 2. Aug. 1-Dec. 31, 1993
United States. President (1993-2001 : Clinton),1994 **Testing and Assessment** Great Britain. Parliament. House of Commons. Children, Schools and Families Committee,2008 A certain amount of national testing at key points in a child's school career is necessary in order to provide a standardised means of measuring educational attainment But in recent years the Government has emphasised central control of the education system through testing and associated targets and performance tables placing test results in a new and more complex context with wide ranging consequences National test results are used for a wide variety of purposes across many different levels national local institutional and individual Is the current national testing system a valid means by which to achieve these purposes The Committee concludes that in some cases it is not In particular the use of national test results for the purpose of school accountability has resulted in some schools emphasising the maximisation of test results at the expense of a more rounded education for their pupils A variety of classroom practices aimed at improving test results has distorted the education of some children which may leave them unprepared for higher education and employment Teaching to the test and narrowing of the taught curriculum are widespread phenomena in schools resulting in a disproportionate focus on the core subjects of English mathematics and science The Government's proposals for the new single level tests and the new emphasis on the personalised approach to learning may have some positive effects But there is a need for structural modification of the current approach The Committee concludes that the national testing system should be reformed to decouple these multiple purposes in such a way as to remove from schools the imperative to pursue test results at all costs On the 14 19 diplomas the Committee notes that teachers feel unprepared for the new qualifications and there is anxiety about the limited amount of training they are due to receive **Government Gazette** ,1893 **Resources in Education** ,1999 **Marking Matric** Vijay Reddy,2006 The past ten years in South Africa has seen many changes in education the creation of a single department of education common examinations for all learners in public schools in the country a new outcomes based education curriculum which was introduced to learners in the general education and training phase since 1998 and will be introduced to the further education and training phase from 2006 To evaluate the success of these changes South African researchers still use the indicator of student achievement The matriculation examination is the visible high profile and public performance indicator Every year parents learners teachers researchers government officials policymakers and the general public get involved in the debate around the matric examination with the most frequently asked questions being Did the pass rate go up Are standards dropping Are the results real or have they been manipulated How is our education system doing Are we meeting the development goals What should the matriculation examination of the future look like participants from government national and provincial **Second Handbook of Research on Mathematics Teaching and Learning** Frank K. Lester,2007-02-01

The audience remains much the same as for the 1992 Handbook namely mathematics education researchers and other scholars conducting work in mathematics education This group includes college and university faculty graduate students investigators in research and development centers and staff members at federal state and local agencies that conduct and use research within the discipline of mathematics The intent of the authors of this volume is to provide useful perspectives as well as pertinent information for conducting investigations that are informed by previous work The Handbook should also be a useful textbook for graduate research seminars In addition to the audience mentioned above the present Handbook contains chapters that should be relevant to four other groups teacher educators curriculum developers state and national policy makers and test developers and others involved with assessment Taken as a whole the chapters reflects the mathematics education research community s willingness to accept the challenge of helping the public understand what mathematics education research is all about and what the relevance of their research findings might be for those outside their immediate community

Research in Education ,1974 *The Scottish Educational Journal* ,1922 *Scientific and Technical Aerospace Reports* ,1964 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **The Mathematical Gazette** ,1989 *Virginia Journal of Education* ,1924 **Parliamentary Papers** Great Britain. Parliament. House of Commons,1916 **Government Reports Announcements & Index** ,1993 *The History of Oxford University Press: Volume IV* Keith Robbins,2017-05-26 The story of Oxford University Press spans five centuries of printing and publishing Beginning with the first presses set up in Oxford in the fifteenth century and the later establishment of a university printing house it leads through the publication of bibles scholarly works and the Oxford English Dictionary to a twentieth century expansion that created the largest university press in the world playing a part in research education and language learning in more than 50 countries With access to extensive archives the four volume History of OUP traces the impact of long term changes in printing technology and the business of publishing It also considers the effects of wider trends in education reading and scholarship in international trade and the spreading influence of the English language and in cultural and social history both in Oxford and through its presence around the world In the decades after 1970 Oxford University Press met new challenges but also a period of unprecedented growth In this concluding volume Keith Robbins and 21 expert contributors assess OUP s changing structure its academic mission and its business operations through years of economic turbulence and continuous technological change The Press repositioned itself after 1970 it brought its London Business to Oxford closed its Printing House and rapidly developed new publishing for English language teaching in regions far beyond its traditional markets Yet in an increasingly competitive worldwide industry OUP remained the department of a major British university sharing its commitment to excellence in scholarship and education The resulting opportunities and sometimes tensions are traced here through detailed consideration of OUP s business decisions the vast range of its

publications and the dynamic role of its overseas offices Concluding in 2004 with new forms of digital publishing The History of OUP sheds new light on the cultural educational and business life of the English speaking world in the late twentieth century *Encyclopedia of Mathematics Education* Louise Grinstein,Sally I. Lipsey,2001-03-15 This single volume reference is designed for readers and researchers investigating national and international aspects of mathematics education at the elementary secondary and post secondary levels It contains more than 400 entries arranged alphabetically by headings of greatest pertinence to mathematics education The scope is comprehensive encompassing all major areas of mathematics education including assessment content and instructional procedures curriculum enrichment international comparisons and psychology of learning and instruction Engineering ,1928 **American Railroad Journal** Henry V. Poor,2025-08-30 Reprint of the original first published in 1856 The Antigonos publishing house specialises in the publication of reprints of historical books We make sure that these works are made available to the public in good condition in order to preserve their cultural heritage **Business Communication: Building Critical Skills** Kitty Locker,Stephen Kaczmarek,2013-03-08 Freedom Flexibility Focus Business Communication Building Critical Skills was built to provide the ultimate in freedom flexibility and focused classroom Broken into 30 modular chapters this text provides topic focused modules allowing instructors to customize their resources piece by piece to best suite their course and teaching style Each module has a strong workplace activity orientation supporting students to build critical skills in writing speaking and listening Locker Kaczmarek is grounded in solid business communication fundamentals and supports students to piece together what is needed to be a successful communicator for the 21st century The Educational Times, and Journal of the College of Preceptors ,1911

The First Sourcebook on Asian Research in Mathematics Education - 2 Volumes Bharath Sriraman,Jinfa Cai,Kyeonghwa Lee,Lianghuo Fan,Yoshinori Shimizu,Chap Sam Lim,K. Subramaniam,2015-08-01 Mathematics and Science education have both grown in fertile directions in different geographic regions Yet the mainstream discourse in international handbooks does not lend voice to developments in cognition curriculum teacher development assessment policy and implementation of mathematics and science in many countries Paradoxically in spite of advances in information technology and the flat earth syndrome old distinctions and biases between different groups of researcher s persist In addition limited accessibility to conferences and journals also contribute to this problem The International Sourcebooks in Mathematics and Science Education focus on under represented regions of the world and provides a platform for researchers to showcase their research and development in areas within mathematics and science education The First Sourcebook on Asian Research in Mathematics Education China Korea Singapore Japan Malaysia and India provides the first synthesized treatment of mathematics education that has both developed and is now prominently emerging in the Asian and South Asian world The book is organized in sections coordinated by leaders in mathematics education in these countries and editorial teams for each country affiliated with them The purpose of unique sourcebook is to both consolidate and survey the established body of

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web dec 20 2018 glucagon opposes hepatic insulin action and enhances the rate of gluconeogenesis increasing hepatic glucose output in order to support gluconeogenesis glucagon promotes skeletal muscle wasting to supply amino acids as gluconeogenic precursors

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web aug 8 2023 fundamentals glycolysis ultimately splits glucose into two pyruvate molecules one can think of glycolysis as having two phases that occur in the cytosol of cells the first phase is the investment phase due to its usage of two atp molecules and the second is the payoff phase

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web this regulation is achieved in two ways first gluconeogenesis and glycolysis are reciprocally regulated by the hormones glucagon and insulin as part of the mechanism for controlling blood glucose levels

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web apr 1 2003 regulation of glucose metabolism by glucagon in the liver diagram outlines the mechanisms by which glucagon regulates glycolysis and gluconeogenesis in the liver overall directions of the glycolysis and gluconeogenesis pathways are indicated with arrows located at the left and right of the diagram

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web nov 1 2017 insulin which is produced by the β cells of the pancreas plays a key role in this process as it facilitates the uptake of glucose promotes glycogenesis and inhibits glyconeogenesis therefore

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web insulin being associated with release at high bloodglucose should favor glycolysis and glucagon should then favor gluconeogenesis but since glucagon has the following effects glukagon receptors ligation g prot a unit dissociate adenyl cyclase activated camp pka 3 fold effect

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web this set of biochemistry multiple choice questions high insulin glucagon ratio coordinated regulation of glycolysis and gluconeogenesis biochemistry insulin allows glucose to be taken up and used by insulin dependent tissues thus glucagon and the coordinated control of glycolysis and gluconeogenesis in

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web hepatic glucose production is a sum of gluconeogenesis which is the formation of glucose from pyruvate or other 3 or 4 carbon compounds and glycogenolysis which is the breakdown of glycogen to glucose the main substrates of gluconeogenesis in humans are lactate glycerol alanine and glutamine

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web glycogenolysis takes place in the cells of the muscle and liver tissues in response to hormonal and neural signals in particular glycogenolysis plays an important role in the fight or flight response and the regulation of glucose levels in the blood in myocytes muscle cells glycogen degradation serves to provide an immediate source of

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web mar 6 2023 glucagon manufactured by the alpha cells in the pancreatic islets stimulates glucose production through glycogenolysis and gluconeogenesis elevated plasma concentrations of glucagon and hyperglucagonemia

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web glucagon like peptide 1 glp 1 is a promising new therapeutic tool for the treatment of diabetes since the first reports describing its potent insulinotropic activity were published about a decade ago knowledge of the incretin hormones and glp 1 in particular has increased significantly

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web jun 6 2022 gluconeogenesis refers to a group of metabolic reactions in cytosol and mitochondria to maintain the blood glucose level constant throughout the fasting state reactions in the gluconeogenesis pathway are regulated locally and globally by insulin glucagon and cortisol and some of them are highl

