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 $x - \sqrt{2 - x} = 3$ (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 $3x^2 - 4xy + y^2 = 0$ (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)

[21]

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: $g(x) = \frac{x^2 - 2x + 4}{x - x}$

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: $\frac{2x}{x + 1} < 6$. Graphically represent your answer. (5)

2.4 Simplify and leave an answer with positive exponents only:

$$\sqrt{\frac{y^2 \cdot 9^{x+1}}{27^{x+1}}}$$ (4)

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

[24]

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_1. (2)

3.2 Given the quadratic series: $-128; -94; -46; -20; \ldots$

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 $T_n = -4x^2 + 54x - 188$, 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: $f(x) = \frac{-3}{x+4} - 1$ 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]

1 | Page
Grade 11   November   Mathematics
                                                                     Paper 1

2 | Page
Grade 11   November   Mathematics
                                                                     Paper 1

The 2014 November Maths Paper 1 For Grade 11

Veera Thakur,Vikrant Verma

The 2014 November Maths Paper 1 For Grade 11:

   Research for Educational Change Jill Adler,Anna Sfard,2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perenial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research   South African national bibliography ,1999 Classified list with author and title index   *Human Resource Management, 11th Edition* Raymond J. Stone,Anne Cox,Mihajla Gavin,Joseph Carpini,2024-06-04 The new edition of Raymond Stone s Human Resource Management is an AHRI endorsed title that has evolved into a modern relevant and practical resource for first year HRM students This concise 15 chapter textbook gives your students the best chance of transitioning successfully into their future profession by giving them relatable professional insights and encouragement to exercise their skills in authentic workplace scenarios   **Helping Children Learn Mathematics** Robert Reys,Mary Lindquist,Diana V. Lambdin,Nancy L. Smith,Anna Rogers,Audrey Cooke,Sue Bennett,Bronwyn Ewing,John West,2020-01-21 The third edition of Reys Helping Children Learn Mathematics is a practical resource for undergraduate students of primary school teaching Rich in ideas tools and stimulation for lessons during teaching rounds or in the classroom this edition continues to provide a clear understanding of how to navigate the Australian Curriculum with detailed coverage on how to effectively use Information and Communications Technology ICT in the classroom This is a full colour printed textbook with an interactive ebook code included Great self study features include auto graded in situ knowledge check questions video of teachers demonstrating how different maths topics can be taught in the classroom and animated branched chain scenarios are in the e text   FOUNDATIONS OF ENGLISH LANGUAGE: A COMPREHENSIVE INTRODUCTION Dr. Smriti Pareek,2024-07-01 ALL UNDERGRADUATE COURSES SECOND SEMESTER ABILITY ENHANCEMENT COURSE Three Four

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ENGLISH PROSE AND WRITING SKILL Dr. S. Kumar,2023-12-02 Purchase e Book of ENGLISH PROSE AND WRITING SKILL of B A 1st Semester for all UP State Universities Common Minimum Syllabus as per NEP Published By Thakur Publication *Psychology and Mathematics Education* Gila Hanna,Laura Macchi,Karin Binder,Laura Martignon,Katharina Loibl,2023-09-05 Modern Mathematics is constructed rigorously through proofs based on truths which are either axioms or previously proven theorems Thus it is par excellence a model of rational inquiry Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program In Simon s bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity **BUSINESS COMMUNICATION** Neeru Saxena ,2025-08-06 BUSINESS COMMUNICATION BCA SEMESTER I As per UP Unified Syllabus BCA First Semester BUSINESS ETHICS AND COMMUNICATION SKILLS Veera Thakur,Vikrant Verma,2024-12-01 MBA FIRST SEMESTER SKILL ENHANCEMENT COURSE According to the New Syllabus of Maharshi Dayanand University Rohtak based on NEP 2020 **New Frontiers for College Education** Jim Gallacher,Fiona Reeve,2018-08-06 The college sector is facing a growing number of new challenges caused by technological change globalisation and the growth of mass higher education New Frontiers for College Education considers the impact these changes have had and explores the developing role of college education in countries throughout the world Whilst analysing the issues associated with providing high quality vocational education and training the book also reflects on the role of colleges in widening access to both further and higher education Drawing together contributions from leading international academics policymakers and practitioners the book explores common themes across these diverse societies as well as some of the key challenges experienced within individual countries It considers the

distinctive contributions that colleges can make in responding to these challenges through apprenticeships and other types of vocational education and training Contributors discuss the growing emphasis on creating more integrated systems of tertiary education recognising that colleges and universities are now expected to work more closely together and that these diverse demands can be difficult to reconcile Providing an authoritative and timely analysis of the changing role of colleges in contemporary society this book will be of great interest to academics researchers and postgraduate students in the areas of further and higher education vocational education and training lifelong learning and skills development It should also be essential reading for policymakers as well as practitioners working in colleges and other institutions of higher and further education **Celebrating Life Customs around the World** Victoria R. Williams,2016-11-21 This book documents hundreds of customs and traditions practiced in countries outside of the United States showcasing the diversity of birth coming of age and death celebrations worldwide From the beginning of our lives to the end all of humanity celebrates life s milestones through traditions and unique customs In the United States we have specific events like baby showers rites of passage such as Bat and Bar Mitzvahs and sweet 16 birthday parties and sober end of life traditions like obituaries and funeral services that honor those who have died But what kinds of customs and traditions are practiced in other countries How do people in other cultures welcome babies prepare to enter into adulthood and commemorate the end of the lives of loved ones This three volume encyclopedia covers more than 300 birth life and death customs with the books content organized chronologically by life stage Volume 1 focuses on birth and childhood customs Volume 2 documents adolescent and early adulthood customs and Volume 3 looks at aging and death customs The entries in the first volume examine pre birth traditions such as baby showers and other gift giving events and post birth customs such as naming ceremonies child rearing practices and traditions performed to ward off evil or promote good health The second volume contains information about rites of passage as children become adults including indigenous initiations marriage customs and religious ceremonies The final volume concludes with coverage on customs associated with aging and death such as retirement celebrations elaborate funeral processions and the creation of fantasy coffins The set features beautiful color inserts that illustrate examples of celebrations and ceremonies and includes an appendix of excerpts from primary documents that include legislation on government accepted names wedding vows and maternity paternity leave regulations Dry Goods Merchants Trade Journal ,1925 *Taming the Tiger Parent* Tanith Carey,2014-09-18 Mozart in the womb Baby Einstein DVD s for newborns and i pad learning apps for toddlers From the moment the umbilical cord is cut today s parents feel trapped in a never ending race to ensure their child is the brightest and the best But while it s completely natural for us to want our kids to reach their potential at what point does too much competition become damaging With constant testing in schools also raising the stakes how can we tell when hot housing children is actually doing more harm than good In this ground breaking and provocative book award winning journalist and parenting author Tanith Carey presents the latest research on what this contest is doing

to the next generation She explains why far from making our children more go getting and successful it can back fire with life long repercussions damage their emotional well being and fracture their relationships with the very people who love them most their parents In this essential manual for today s modern parent Tanith offers parents practical realistic solutions that will give them permission to take their foot off the gas and reclaim a more relaxed family life Packed with insights experts tips real experiences and resources this book is a timely guide to safeguarding your child s well being in a competitive world so they can grow into the happy emotionally balanced people they really need to be I ve hardly been able to put the book down as I turned each page I d find something else that resonated with me Tanith has the ability to challenge your thinking without it being judgmental or preachy She shares lots of real life case studies and draws on her own experience as a parent and combines this with solid research to make a really readable book mummyfromtheheart An impassioned book appealing to other parents to rethink all the relentless competitiveness before it s too late Psychologies A highly readable well balanced well argued contribution to the rapidly growing mountain of parenting books with plenty of practical achievable advice for anyone who wants to escape from the tiger race Sue Palmer author of Toxic Childhood A fantastic new book by Tanith Carey which gives children back their childhood Dr David Whitebread Senior Lecturer in Psychology of Education at Cambridge University   **Ohio New Learning Standards in Grade 1 Mathematics** American Book Company,2014

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    - The Rise of Digital Reading The 2014 November Maths Paper 1 For Grade 11
    - Advantages of eBooks Over Traditional Books
2. Identifying The 2014 November Maths Paper 1 For Grade 11
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an The 2014 November Maths Paper 1 For Grade 11
    - User-Friendly Interface
4. Exploring eBook Recommendations from The 2014 November Maths Paper 1 For Grade 11
    - Personalized Recommendations
    - The 2014 November Maths Paper 1 For Grade 11 User Reviews and Ratings
    - The 2014 November Maths Paper 1 For Grade 11 and Bestseller Lists
5. Accessing The 2014 November Maths Paper 1 For Grade 11 Free and Paid eBooks

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