

**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]

# Mathematics Grade 12 Paper 1 November 2009

**Jessica J Manson**



## **Mathematics Grade 12 Paper 1 November 2009:**

**Handbook of Special Education** James M. Kauffman, Daniel P. Hallahan, 2011-05-15 Special education is now an established part of public education in the United States by law and by custom. However, it is still widely misunderstood and continues to be dogged by controversies related to such things as categorization, grouping, assessment, placement, funding, instruction, and a variety of legal issues. The purpose of this 13-part, 57-chapter handbook is to help profile and bring greater clarity to this sprawling and growing field. To ensure consistency across the volume, chapter authors review and integrate existing research, identify strengths and weaknesses, note gaps in the literature, and discuss implications for practice and future research. Key features include Comprehensive Coverage: Fifty-seven chapters cover all aspects of special education in the United States, including cultural and international comparisons. Issues/Trends: In addition to synthesizing empirical findings and providing a critical analysis of the status and direction of current research, chapter authors discuss issues related to practice and reflect on trends in thinking. Categorical Chapters: In order to provide a comprehensive and comparative treatment of the twelve categorical chapters in section IV, chapter authors were asked to follow a consistent outline: Definition, Causal Factors, Identification, Behavioral Characteristics, Assessment, Educational Programming, and Trends and Issues. Expertise: Edited by two of the most accomplished scholars in special education, chapter authors include a carefully chosen mixture of established and rising young stars in the field. This book is an appropriate reference volume for anyone: researchers, scholars, graduate students, practitioners, policy makers, and parents interested in the state of special education today, its research base, current issues and practices, and future trends. It is also appropriate as a textbook for graduate-level courses in special education.

**SBI & IBPS Bank Clerk 38 Past (2009-18) Solved Papers 3rd Edition** Disha Experts, 2018-11-19 SBI IBPS Bank Clerk 38 SOLVED PAPERS consists of past solved papers of SBI IBPS and other Nationalised Bank Exams from 2009 to 2018. The papers featured in the book are: i) SBI Clerk Prelim Mains 16 papers, ii) IBPS Clerk Prelim Mains 12 Papers, iii) RBI Assistant 3 papers, iv) IBPS RRB Office Assistant Prelim Mains 5 Papers. In all, there are 38 question papers from 2009 to 2018, which have been provided year-wise along with detailed solutions. The strength of the book lies in the originality of its question papers and errorless solutions.

**SBI & IBPS Bank Clerk 44 Year-wise Solved Papers (2009-20) 4th Edition** Disha Experts, 2020-03-07

**Trapped in Mediocrity** Katherine Baird, 2012-08-09 Katherine Baird, an economist, clearly spells out how our educational system is trapped in mediocrity. She points the direction to where we need to go to get out of the trap and carefully examines each factor that has led to the current state in education.

**Pratiyogita Darpan**, 2009-09 Pratiyogita Darpan monthly magazine is India's largest read General Knowledge and Current Affairs Magazine. Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs. Topics ranging from national and international news, issues, personality development, interviews of examination toppers, articles, write-ups on topics like career, economy, history, public administration, geography, polity, social

environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine      **Encyclopedia of Adolescence** Roger J.R. Levesque,2011-09-05 The Encyclopedia of Adolescence breaks new ground as an important central resource for the study of adolescence Comprehensive in breath and textbook in depth the Encyclopedia of Adolescence with entries presented in easy to access A to Z format serves as a reference repository of knowledge in the field as well as a frequently updated conduit of new knowledge long before such information trickles down from research to standard textbooks By making full use of Springer s print and online flexibility the Encyclopedia is at the forefront of efforts to advance the field by pushing and creating new boundaries and areas of study that further our understanding of adolescents and their place in society Substantively the Encyclopedia draws from four major areas of research relating to adolescence The first broad area includes research relating to Self Identity and Development in Adolescence This area covers research relating to identity from early adolescence through emerging adulthood basic aspects of development e g biological cognitive social and foundational developmental theories In addition this area focuses on various types of identity gender sexual civic moral political racial spiritual religious and so forth The second broad area centers on Adolescents Social and Personal Relationships This area of research examines the nature and influence of a variety of important relationships including family peer friends sexual and romantic as well as significant nonparental adults The third area examines Adolescents in Social Institutions This area of research centers on the influence and nature of important institutions that serve as the socializing contexts for adolescents These major institutions include schools religious groups justice systems medical fields cultural contexts media legal systems economic structures and youth organizations Adolescent Mental Health constitutes the last major area of research This broad area of research focuses on the wide variety of human thoughts actions and behaviors relating to mental health from psychopathology to thriving Major topic examples include deviance violence crime pathology DSM normalcy risk victimization disabilities flow and positive youth development      *Pratiyogita Darpan* ,2009-10 Pratiyogita Darpan monthly magazine is India s largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine      Self-Study Teacher Research Anastasia P. Samaras,2010-04-22 Offer novice and experienced teachers guidelines for the how and why to do self study teacher research Designed to help teachers plan implement and assess a manageable self study research project this unique textbook covers the foundation history theoretical underpinnings and methods of self study research Written in a reader friendly style and filled with interactive activities and examples this book helps teachers every step of the way as they plan and conduct their

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**The Boy Crisis** Warren Farrell, John Gray, 2018-03-13 What is the boy crisis It s a crisis of education Worldwide boys are 50 percent less likely than girls to meet basic proficiency in reading math and science It s a crisis of mental health ADHD is on the rise And as boys become young men their suicide rates go from equal to girls to six times that of young women It s a crisis of fathering Boys are growing up with less involved fathers and are more likely to drop out of school drink do drugs become delinquent and end up in prison It s a crisis of purpose Boys old sense of purpose being a warrior a leader or a sole breadwinner are fading Many bright boys are experiencing a purpose void feeling alienated withdrawn and addicted to immediate gratification So what is The Boy Crisis A comprehensive blueprint for what parents teachers and policymakers can do to help our sons become happier healthier men and fathers and leaders worthy of our respect

**The Complete Book of Colleges, 2018 Edition** Princeton Review, 2017-07 Includes information on admissions cost financial aid required and recommended admissions criteria cost breakdowns and types of financial aid for 1 355 colleges and universities

**Adult and Continuing Education: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2014-03-31 Beyond the undergraduate and graduate levels education has traditionally ceased when students enter the workforce as professionals in their respective fields However recent trends in education have found that adult students beyond the traditional university age often benefit greatly from returning to further their education Adult and Continuing Education Concepts Methodologies Tools and Applications investigates some of the most promising trends in furthering education and professional development in a variety of settings and industries With an extensive array of chapters on topics ranging from non traditional students to online and distance education for adult learners this multi volume reference book will provide students educators and industry professionals with the tools necessary

to make the most of their return to the classroom      **School Rethink 2.0** Frederick M. Hess, Michael B. Horn, Juliet Squire, 2025-02-12 Ten brilliant approaches that are disrupting US education and actionable advice for their broader implementation      **Teaching Children Mathematics**, 2009-08      **Connecting America** Barry Leonard, 2010-11

Broadband is the great infrastructure challenge of the early 21st century Broadband is a foundation for economic growth job creation global competitiveness and a better way of life The number of Americans who have broadband at home has grown from 8 million in 2000 to nearly 200 million last year But 100 million Americans do not have broadband at home In early 2009 Congress directed the FCC to develop a National Broadband Plan to ensure that every American has access to broadband capability This plan must also include a strategy for achieving affordability and maximizing use of broadband The plan presented here ensures that the entire broadband ecosystem networks devices content and applications is healthy

**Illus College Admissions Data Sourcebook Northeast Edition Looseleaf 2010-11**, 2010-09      Balancing the Tension between Digital Technologies and Learning Sciences Dirk Ifenthaler, Demetrios G. Sampson, Pedro Isaías, 2021-02-16 This volume focuses on the implications of digital technologies for educators and educational decision makers that is not widely represented in the literature While there are many volumes on how one might integrate a particular technology there are no volumes on how digital technologies can or should be exploited to address the needs and propel the benefits of large scale teaching learning and assessment      **Global Action on School Library Guidelines** Barbara A. Schultz-Jones, Dianne Oberg, 2015-06-16 This book celebrates the new IFLA School Library Guidelines and shows how the Guidelines can be used in improving school library services Each chapter describes innovative initiatives for developing implementing and promoting school library guidelines The book provides inspiration and guidance for the creation of national school library standards and for the development and use of standards and guidelines to change school library practice to define the teaching role of school librarians to guide the initial preparation of school librarians and to advocate for school library services Contributors to the book come from around the world Australia Canada Ethiopia France Malaysia Norway Poland Portugal Spain Sweden and the United States Their work illustrates the shared commitment of school librarians around the world to teaching and learning for all as envisioned in the IFLA UNESCO School Library Manifesto      Culturally Specific Pedagogy in the Mathematics Classroom Jacqueline Leonard, 2018-11-01 Advocating for the use of culturally specific pedagogy to enhance the mathematics instruction of diverse students this revised second edition offers a wide variety of conceptual and curricular resources for teaching mathematics in a way that combats and confronts the forms of oppression that students face today Addressing stratification based on race class and gender Leonard offers lesson templates that teachers can use with ethnically and culturally diverse students and makes the link between research and practice Connecting cutting edge and emerging technologies to culturally specific pedagogy the second edition features new chapters on mathematics and social justice robotics and spatial visualization Applying a more expansive focus the new edition discusses current movements such

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**The Social Classroom: Integrating Social Network Use in Education** Mallia, Gorg,2013-12-31 As technology is being integrated into educational processes teachers are searching for new ways to enhance student motivation and learning Through shared experiences and the results of empirical research educators can ease social networking sites into instructional usage The Social Classroom Integrating Social Network Use in Education collates different viewpoints on how social networking sites can be integrated in education Highlighting both formal and informal uses of social interaction tools as learning tools this book will be very useful to all educators trainers and academic researchers in all aspects of education looking for a theoretical practical approach to resourceful teaching

**The developing human brain** Silvia A. Bunge,Elizabeth D. O'Hare, Technological advances in brain imaging genetics and computational modeling have set the stage for novel insights into the cognitive neuroscience of human development during childhood and adolescence As the field has expanded research in this area increasingly incorporates highly interdisciplinary approaches utilizing sophisticated imaging behavioral and genetic methodologies to map brain cognitive and affective social development The articles in this Research Topic will highlight both the recent advances and future challenges inherent in this burgeoning interdisciplinary field We invite both review articles and original research reports that consider any of the broad spectrum of topics within the field of developmental cognitive neuroscience

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