



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS NATIONAL SENIOR CERTIFICATE EXAMINATIONS

MATHEMATICS P1

2021

MARKS: 100

TIME: 1 hour

This question paper consists of 10 pages and 1 information sheet.

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QUESTION 1

- 1.1 Solve for x :
 - 1.1.1 $x^2 + 3x + 2 = 0$ (5)
 - 1.1.2 $3x^2 + x - 4 = 0$ (Show partial solution in TWO distinct parts) (10)
 - 1.1.3 $x^2 = 49$ (5)
- 1.2 Given $y = \frac{3x}{x^2 + 2}$
 - 1.2.1 Solve for x (5)
 - 1.2.2 Hence solve for x : $2x^2 + 3x = 4$ (5)
- 1.3 Without using a calculator, calculate the value of $\sqrt{\frac{36x^2 + 49}{121x^2}}$ (5)
- 1.4 Solve for x and y simultaneously:
 $(x + y + 2) = \frac{1}{x}$ and $\frac{1}{y} = 4y + 1$ (10)

QUESTION 2

- 2.1 The first term of an arithmetic sequence is 2 and the 17th term is 34.
 Determine:
 - 2.1.1 d , the common difference of the sequence (5)
 - 2.1.2 The number of terms in the sequence if the last term of the sequence is 47 (5)
 - 2.1.3 The sum of the first 40 terms in the sequence (5)
- 2.2 $16, 25, 36, 49, \dots$ is a quadratic number pattern.
 - 2.2.1 Write down the 100th term of the number pattern (5)
 - 2.2.2 Determine the n^{th} term of the number pattern (5)
 - 2.2.3 Determine the maximum value of the following number pattern:
 $-12, -\frac{11}{2}, -\frac{9}{2}, -\frac{7}{2}, \dots$ (5)

June Test 2013 Mathematics Paper1 Memorandum

M. J. Ryall, J. E. Harding, G. A. R. Parke



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Mathematics Science For 2025 Exam **CDS 12 Years Topic-wise Solved Papers Mathematics, English & General**

Knowledge (2007-2018) - 3rd Edition Disha Experts,2018-06-01 The thoroughly revised updated 3rd edition of CDS 12 Years Mathematics English General Knowledge Topic wise Solved Papers 2007 Feb 2018 Feb consists of last 12 years both Feb and November papers from 2007 Paper 1 2018 Paper 1 solved papers of Elementary Mathematics English and General Knowledge distributed into 42 topics In all there are 23 Question papers from 2007 to 2018 I which have been divided into the above discussed 42 topics Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination All the papers are divided into following sections Section I Mathematics which is distributed into 25 topics Section II English is divided into 8 topics Section III General Knowledge is divided into 9 topics The book contains 6460 MILESTONE MCQ s from the above 23 Question papers The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students **Cognitive Communication and Cooperative HetNet Coexistence**

Maria-Gabriella Di Benedetto,Faouzi Bader,2014-01-16 This book written by experts from universities and major industrial research laboratories is devoted to the very hot topic of cognitive radio and networking for cooperative coexistence of heterogeneous wireless networks Selected highly relevant advanced research is presented on spectrum sensing and progress toward the realization of accurate radio environment mapping biomimetic learning for self organizing networks security threats with a special focus on primary user emulation attack and cognition as a tool for green next generation networks The research activities covered include work undertaken within the framework of the European COST Action IC0902 which is geared towards the definition of a European platform for cognitive radio and networks Communications engineers R D engineers researchers and students will all benefit from this complete reference on recent advances in wireless communications and the design and implementation of cognitive radio systems and networks **CUET (UG) 20 Combined**

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Handbook of Test Development Suzanne Lane, Mark R. Raymond, Thomas M. Haladyna, 2015-10-08 The second edition of the Handbook of Test Development provides graduate students and professionals with an up to date research oriented guide to the latest developments in the field Including thirty two chapters by well known scholars and practitioners it is divided into five sections covering the foundations of test development content definition item development test design and form assembly and the processes of test administration documentation and evaluation Keenly aware of developments in the field since the publication of the first edition including changes in technology the evolution of psychometric theory and the

increased demands for effective tests via educational policy the editors of this edition include new chapters on assessing noncognitive skills measuring growth and learning progressions automated item generation and test assembly and computerized scoring of constructed responses The volume also includes expanded coverage of performance testing validity fairness and numerous other topics Edited by Suzanne Lane Mark R Raymond and Thomas M Haladyna The Handbook of Test Development 2nd edition is based on the revised Standards for Educational and Psychological Testing and is appropriate for graduate courses and seminars that deal with test development and usage professional testing services and credentialing agencies state and local boards of education and academic libraries serving these groups

The Mathematical-Function Computation Handbook Nelson H.F. Beebe, 2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book's software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology's 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardware and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades

The Schenley Experiment Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both

the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace s reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America s oldest public schools **Assessing Contexts of Learning** Susanne Kuger,Eckhard Klieme,Nina Jude,David Kaplan,2016-12-05 This volume brings together educational effectiveness research and international large scale assessments demonstrating how the two fields can be applied to inspire and improve each other and providing readers direct links to instruments that cover a broad range of topics and have been shown to work in more than 70 countries The book s initial chapters introduce and summarize recent discussions and developments in the conceptualization implementation and evaluation of international large scale context assessments and provide an outlook on possible future developments Subsequently three thematic sections Student Background Outcomes of Education Beyond Achievement and Learning in Schools each present a series of chapters that provide the conceptual background for a wide range of important topics in education research policy and practice Each chapter defines a conceptual framework that relates recent findings in the educational effectiveness research literature to current issues in education policy and practice These frameworks were used to develop interesting and relevant indicators that may be used for meaningful reporting from international assessments other cross cultural research or national studies Using the example of one particular survey the Programme for International Student Assessment PISA 2015 this volume links all theoretical considerations to fully developed questionnaire material that was field trailed and evaluated in questionnaires for students and their parents as well as teachers and principals in their schools The primary purposes of this book are to inform readers about how education effectiveness research and international large scale assessments are already interacting to inform research and policymaking to identify areas where a closer collaboration of both fields or input from other areas could further improve this work to provide sound theoretical frameworks for future work in both fields and finally to relate these theoretical debates to currently available and evaluated material for future context assessments **Handbook of Numerical Simulation of In-Flight Icing** Wagdi George Habashi,2023-12-11 This Handbook of Numerical Simulation of In Flight Icing covers an array of methodologies and technologies on numerical simulation of in flight icing and its applications Comprised of contributions from internationally recognized experts from the Americas Asia and the EU this authoritative self

contained reference includes best practices and specification data spanning the gamut of simulation tools available internationally that can be used to speed up the certification of aircraft and make them safer to fly into known icing The collection features nine sections concentrating on aircraft rotorcraft jet engines UAVs ice protection systems including hot air electrothermal and others sensors and probes CFD in the aid of testing flight simulators and certification process acceleration methods Incorporating perspectives from academia commercial government R D the book is ideal for a range of engineers and scientists concerned with in flight icing applications [The Vanishing Middle Class](#) Peter Temin,2017-03-17 Why the United States has developed an economy divided between rich and poor and how racism helped bring this about The United States is becoming a nation of rich and poor with few families in the middle In this book MIT economist Peter Temin offers an illuminating way to look at the vanishing middle class Temin argues that American history and politics particularly slavery and its aftermath play an important part in the widening gap between rich and poor Temin employs a well known simple model of a dual economy to examine the dynamics of the rich poor divide in America and outlines ways to work toward greater equality so that America will no longer have one economy for the rich and one for the poor Many poorer Americans live in conditions resembling those of a developing country substandard education dilapidated housing and few stable employment opportunities And although almost half of black Americans are poor most poor people are not black Conservative white politicians still appeal to the racism of poor white voters to get support for policies that harm low income people as a whole casting recipients of social programs as the Other black Latino not like us Politicians also use mass incarceration as a tool to keep black and Latino Americans from participating fully in society Money goes to a vast entrenched prison system rather than to education In the dual justice system the rich pay fines and the poor go to jail

The Complete Book of Colleges, 2017 Edition Princeton Review,2016-07 The MEGA GUIDE to 1 355 COLLEGES AND UNIVERSITIES No one knows colleges better than The Princeton Review Inside The Complete Book of Colleges 2017 Edition you ll find meticulously researched information that will help you narrow the search for the best college for you Each of the 1 355 user friendly profiles answers your questions including How much are tuition and other student fees and costs What types of financial aid are available and when are the applications due What do admissions officers most look for in test scores and recommendations Which majors are the most popular and have the highest enrollment What is the housing like and how accessible is technology on campus What are the key campus organizations athletics and student activities How selective is the school Plus Indexes based on cost selectivity and size that will help you narrow your search Get a leg up on your college search with this easy to use comprehensive and savvy guidebook from the experts at The Princeton Review

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J. Vettel, 2013-03-01 The seemingly unlimited reach of powerful biotechnologies and the attendant growth of the multibillion dollar industry have raised difficult questions about the scientific discoveries political assumptions and cultural patterns that gave rise to for profit biological research Given such extraordinary stakes a history of the commercial biotechnology industry must inquire far beyond the predictable attention to scientists discovery and corporate sales It must pursue how something so complex as the biotechnology industry was born poised to become both a vanguard for contemporary world capitalism and a focal point for polemic ethical debate In *Biotech* Eric J Vettel chronicles the story behind genetic engineering recombinant DNA cloning and stem cell research It is a story about the meteoric rise of government support for scientific research during the Cold War about activists and student protesters in the Vietnam era pressing for a new purpose in science about politicians creating policy that alters the course of science and also about the release of powerful entrepreneurial energies in universities and in venture capital that few realized existed Most of all it is a story about people not just biologists but also followers and opponents who knew nothing about the biological sciences yet cared deeply about how biological research was done and how the resulting knowledge was used Vettel weaves together these stories to illustrate how the biotechnology industry was born in the San Francisco Bay area examining the anomalies ironies and paradoxes that contributed to its rise Culled from oral histories university records and private corporate archives including Cetus the world's first biotechnology company this compelling history shows how a cultural and political revolution in the 1960s resulted in a new scientific order the practical application of biological knowledge supported by private investors expecting profitable returns eclipsed basic research supported by government agencies

Applied Game Theory XY. Brams, XY. Schotter, XY. Schwödlauer, 2013-12-19

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