

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
b. Express $\sqrt{3} + i$ in polar form.
c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

Maths Paper A Linear 11th June 2013

**Michael G. Akritas, S. N. Lahiri, Dimitris
N. Politis**

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Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM Karen Morrison, Nick Hamshaw, 2015-12-03 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015 [Information Processing and Management of Uncertainty in Knowledge-Based Systems](#) Marie-Jeanne Lesot, Susana Vieira, Marek Z. Reformat, João Paulo Carvalho, Anna Wilbik, Bernadette Bouchon-Meunier, Ronald R. Yager, 2020-06-05 This three volume set CCIS 1237 1239 constitutes the proceedings of the 18th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 2020 in June 2020 The conference was scheduled to take place in Lisbon Portugal at University of Lisbon but due to COVID 19 pandemic it was held virtually The 173 papers were carefully reviewed and selected from 213 submissions The papers are organized in topical sections homage to Enrique Ruspini invited talks foundations and mathematics decision making preferences and votes optimization and uncertainty games real world applications knowledge processing and creation machine learning I machine learning II XAI image processing temporal data processing text analysis and processing fuzzy interval analysis theoretical and applied aspects of imprecise probabilities similarities in artificial intelligence belief function theory and its applications aggregation theory and practice aggregation pre aggregation functions and other generalizations of monotonicity aggregation aggregation of different data structures fuzzy methods in data mining and knowledge discovery computational intelligence for logistics and transportation problems fuzzy implication functions soft methods in statistics and data analysis image understanding and explainable AI fuzzy and generalized quantifier theory mathematical methods towards dealing with uncertainty in applied sciences statistical image processing and analysis with applications in neuroimaging interval uncertainty discrete models and computational intelligence current techniques to model process and describe time series mathematical fuzzy logic and graded reasoning models formal concept analysis rough sets general operators and related topics computational intelligence methods in information modelling representation and processing **Selected Papers from IIKII 2019 conferences in Symmetry** Teen-Hang Meen, Charles Tijus, Jih-Fu Tu, 2020-12-15 The International Institute of Knowledge Innovation and Invention IIKII <http://www.iikii.org> promotes the exchange of innovations and inventions and establishes a communication platform for international innovations and research In 2019 IIKII cooperates with the IEEE Tainan Section Sensors Council to hold IEEE conferences such as IEEE ICIASE 2019 IEEE ECBIOS 2019 IEEE ICKII 2019 ICUSA GAME 2019 and IEEE ECICE 2019 This Special Issue entitled Selected Papers from IIKII 2019 conferences aims to showcase outstanding papers from IIKII 2019 conferences including symmetry in physics chemistry biology mathematics and computer science etc It selected 21 outstanding papers from 750 papers presented in IIKII 2019 conferences on the topic of symmetry The main goals of this Special Issue are to encourage scientists to publish their experimental and theoretical results in as much detail as possible and to discover new scientific knowledge relevant to the

topic of symmetry **International Conference on Mathematical Sciences and Statistics 2013** Adem Kilicman, Wah June Leong, Zainidin Eshkuvatov, 2014-03-16 This volume is devoted to the most recent discoveries in mathematics and statistics It also serves as a platform for knowledge and information exchange between experts from industrial and academic sectors The book covers a wide range of topics including mathematical analyses probability statistics algebra geometry mathematical physics wave propagation stochastic processes ordinary and partial differential equations boundary value problems linear operators cybernetics and number and functional theory It is a valuable resource for pure and applied mathematicians statisticians engineers and scientists

Numerical Computations: Theory and Algorithms Yaroslav D. Sergeyev, Dmitri E. Kvasov, 2020-02-13 The two volume set LNCS 11973 and 11974 constitute revised selected papers from the Third International Conference on Numerical Computations Theory and Algorithms NUMTA 2019 held in Crotona Italy in June 2019 This volume LNCS 11974 consists of 19 full and 32 short papers chosen among regular papers presented at the the Conference including also the paper of the winner Lorenzo Fiaschi Pisa Italy of The Springer Young Researcher Prize for the best NUMTA 2019 presentation made by a young scientist The papers in part II explore the advanced research developments in such interconnected fields as local and global optimization machine learning approximation and differential equations A special focus is given to advanced ideas related to methods and applications using emerging computational paradigms

Rock Mechanics and Engineering Volume 3 Xia-Ting Feng, 2017-04-21 Analysis Modeling Back Analysis Risk Analysis Design and Stability Analysis Overviews Design and Stability Analysis Coupling Process Analysis Design and Stability Analysis Blast Analysis and Design Rock Slope Stability Analysis and Design Analysis and Design of Tunnels Caverns and Stopes The five volume set Comprehensive Rock Engineering which was published in 1993 has had an important influence on the development of rock mechanics and rock engineering Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a comparable new compilation Rock Mechanics and Engineering represents a highly prestigious multi volume work edited by Professor Xia Ting Feng with the editorial advice of Professor John A Hudson This new compilation offers an extremely wideranging and comprehensive overview of the state of the art in rock mechanics and rock engineering and is composed of peer reviewed dedicated contributions by all the key experts worldwide Key features of this set are that it provides a systematic global summary of new developments in rock mechanics and rock engineering practices as well as looking ahead to future developments in the fields Contributors are worldrenowned experts in the fields of rock mechanics and rock engineering though younger talented researchers have also been included The individual volumes cover an extremely wide array of topics grouped under five overarching themes Principles Vol 1 Laboratory and Field Testing Vol 2 Analysis Modelling and Design Vol 3 Excavation Support and Monitoring Vol 4 and Surface and Underground Projects Vol 5 This multi volume work sets a new standard for rock mechanics and engineering compendia and will be the go to resource for all engineering professionals and academics involved in rock

mechanics and engineering for years to come *Mathematics & Mathematics Education: Searching for Common Ground* Michael N. Fried, Tommy Dreyfus, 2013-11-29 This book is the fruit of a symposium in honor of Ted Eisenberg concerning the growing divide between the mathematics community and the mathematics education community a divide that is clearly unhealthy for both The work confronts this disturbing gap by considering the nature of the relationship between mathematics education and mathematics and by examining areas of commonality as well as disagreement It seeks to provide insight into the mutual benefit both stand to gain by building bridges based on the natural bonds between them **Mathematical Aspects of Computer and Information Sciences** Daniel Slamanig, Elias Tsigaridas, Zafeirakis Zafeirakopoulos, 2020-03-18 This book constitutes the refereed proceedings of the 8th International Conference on Mathematical Aspects of Computer and Information Sciences MACIS 2019 held in Gebze Turkey in November 2019 The 22 revised papers and 14 short papers presented were carefully reviewed and selected from 66 submissions The papers are organized in the following topical sections algorithms and foundation security and cryptography combinatorics codes designs and graphs data modeling and machine learning tools and software track **Progress in Modeling and Simulation of Batteries** John Turner, 2016-06-15 Modeling and simulation of batteries in conjunction with theory and experiment are important research tools that offer opportunities for advancement of technologies that are critical to electric motors The development of data from the application of these tools can provide the basis for managerial and technical decision making Together these will continue to transform batteries for electric vehicles This collection of nine papers presents the modeling and simulation of batteries and the continuing contribution being made to this impressive progress including topics that cover Thermal behavior and characteristics Battery management system design and analysis Moderately high fidelity 3D capabilities Optimization Techniques and Durability As electric vehicles continue to gain interest from manufacturers and consumers alike improvements in economy and affordability as well as adoption of alternative fuel sources to meet government mandates are driving battery research and development Progress in modeling and simulation will continue to contribute to battery improvements that deliver increased power energy storage and durability to further enhance the appeal of electric vehicles **Topics in Nonparametric Statistics** Michael G. Akritas, S. N. Lahiri, Dimitris N. Politis, 2014-12-02 This volume is composed of peer reviewed papers that have developed from the First Conference of the International Society for Non Parametric Statistics ISNPS This inaugural conference took place in Chalkidiki Greece June 15 19 2012 It was organized with the co sponsorship of the IMS the ISI and other organizations M G Akritas S N Lahiri and D N Politis are the first executive committee members of ISNPS and the editors of this volume ISNPS has a distinguished Advisory Committee that includes Professors R Beran P Bickel R Carroll D Cook P Hall R Johnson B Lindsay E Parzen P Robinson M Rosenblatt G Roussas T SubbaRao and G Wahba The Charting Committee of ISNPS consists of more than 50 prominent researchers from all over the world The chapters in this volume bring forth recent advances and trends in several areas of nonparametric statistics In this

way the volume facilitates the exchange of research ideas promotes collaboration among researchers from all over the world and contributes to the further development of the field The conference program included over 250 talks including special invited talks plenary talks and contributed talks on all areas of nonparametric statistics Out of these talks some of the most pertinent ones have been refereed and developed into chapters that share both research and developments in the field

A Level Mathematics for OCR A Student Book 1 (AS/Year 1) Ben Woolley, 2017-07-06 New 2017 Cambridge A Level Maths and Further Maths resources help students with learning and revision Written for the OCR AS A Level Mathematics specifications for first teaching from 2017 this print Student Book covers the content for AS and the first year of A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study

Operator Theory, Analysis and the State Space Approach Harm Bart, Sanne ter Horst, André C.M. Ran, Hugo J. Woerdeman, 2018-12-30 This volume is dedicated to Rien Kaashoek on the occasion of his 80th birthday and celebrates his many contributions to the field of operator theory during more than fifty years In the first part of the volume biographical information and personal accounts on the life of Rien Kaashoek are presented Eighteen research papers by friends and colleagues of Rien Kaashoek are included in the second part Contributions by J Agler Z A Lykova N J Young J A Ball G J Groenewald S ter Horst H Bart T Ehrhardt B Silbermann J M Bogoya S M Grudsky I S Malysheva A B ttcher E Wegert Z Zhou Y Eidelman I Haimovici A E Frazho A C M Ran B Fritzsche B Kirstein C Madler J J Jaftha D B Janse van Rensburg P Junghanns R Kaiser J Nemcova M Petreczky J H van Schuppen L Plevnik P Semrl A Sakhnovich F O Speck S Sremac H J Woerdeman H Wolkowicz and N Vasilevski

High Performance Computing for Computational Science -- VECPAR 2014 Michel Daydé, Osni Marques, Kengo Nakajima, 2015-04-20 This book constitutes the thoroughly refereed post conference proceedings of the 11th International Conference on High Performance Computing for Computational Science VECPAR 2014 held in Eugene OR USA in June July 2014 The 25 papers presented were carefully reviewed and selected of numerous submissions The papers are organized in topical sections on algorithms for GPU and manycores large scale applications numerical algorithms direct hybrid methods for solving sparse matrices performance tuning The volume also contains the papers presented at the 9th International Workshop on Automatic Performance Tuning

Computer Mathematics Ruyong Feng, Wen-shin Lee, Yosuke Sato, 2014-09-30 This book covers original research and the latest advances in symbolic algebraic and geometric computation computational methods for differential and difference equations symbolic numerical computation mathematics software design and implementation and scientific and engineering applications based on features invited talks special sessions and contributed papers presented at the 9th in Fukuoka Japan in 2009 and 10th in Beijing China in 2012 Asian Symposium on Computer Mathematics ASCM Thirty selected and refereed

articles in the book present the conference participants ideas and views on researching mathematics using computers

Graph Drawing Stephen Wismath, Alexander Wolff, 2013-12-02 This book constitutes the thoroughly refereed post conference proceedings of the 21st International Symposium on Graph Drawing GD 2013 held in Bordeaux France in September 2013 The 42 revised full papers presented together with 12 revised short papers 3 invited talks and 1 poster description were carefully reviewed and selected from 110 submissions The papers are organized in topical sections on upward drawings planarity beyond planarity geometric representations 3D et al universality practical graph drawing subgraphs crossings geometric graphs and geographic networks angular restrictions grids curves and routes The book also contains a short description of the graph drawing contest

Control Systems and Mathematical Methods in Economics Gustav Feichtinger, Raimund M. Kovacevic, Gernot Tragler, 2018-06-08 Since the days of Lev Pontryagin and his associates the discipline of Optimal Control has enjoyed a tremendous upswing not only in terms of its mathematical foundations but also with regard to numerous fields of application which have given rise to highly active research areas Few scholars however have been able to make contributions to both the mathematical developments and the socio economic applications Vladimir Veliov is one of them In the course of his scientific career he has contributed highly influential research on mathematical aspects of Optimal Control Theory as well as applications in Economics and Operations Research One of the hallmarks of his research is its impressive breadth This volume published on the occasion of his 65th birthday accurately reflects that diversity The mathematical aspects covered include stability theory for difference inclusions metric regularity generalized duality theory the Bolza problem from a functional analytic perspective and fractional calculus In turn the book explores various applications of control theory such as population dynamics population economics epidemiology optimal growth theory resource and energy economics environmental management and climate change Further topics include optimal liquidity dynamics of the firm and wealth inequality

Technology and Innovation in Learning, Teaching and Education Meni Tsitouridou, José A. Diniz, Tassos A. Mikropoulos, 2019-05-28 This book constitutes the thoroughly refereed post conference proceedings of the First International Conference on Technology and Innovation in Learning Teaching and Education TECH EDU 2018 held in Thessaloniki Greece on June 20 22 2018 The 30 revised full papers along with 18 short papers presented were carefully reviewed and selected from 80 submissions The papers are organized in topical sections on new technologies and teaching approaches to promote the strategies of self and co regulation learning new TECH to SCRL eLearning 2 0 trends challenges and innovative perspectives building critical thinking in higher education meeting the challenge digital tools in S and T learning exploratory potentialities of emerging technologies in education learning technologies digital technologies and instructional design big data in education and learning analytics

Collected Papers. Volume XIV Florentin Smarandache, 2022-11-01 This fourteenth volume of Collected Papers is an eclectic tome of 87 papers in Neutrosophics and other fields such as mathematics fuzzy sets intuitionistic fuzzy sets picture fuzzy sets information fusion

robotics statistics or extenics comprising 936 pages published between 2008 2022 in different scientific journals or currently in press by the author alone or in collaboration with the following 99 co authors alphabetically ordered from 26 countries Ahmed B Al Nafee Adesina Abdul Akeem Agboola Akbar Rezaei Shariful Alam Marina Alonso Fran Andujar Toshinori Asai Assia Bakali Azmat Hussain Daniela Baran Bijan Davvaz Bilal Hadjadji Carlos D az Bohorquez Robert N Boyd M Caldas Cenap zel Pankaj Chauhan Victor Christianto Salvador Coll Shyamal Dalapati Irfan Deli Balasubramanian Elavarasan Fahad Alsharari Yonfei Feng Daniela G fu Rafael Rojas Gualdr n Haipeng Wang Hemant Kumar Gianey Noel Batista Hern ndez Abdel Nasser Hussein Ibrahim M Hezam Ilanthenral Kandasamy W B Vasantha Kandasamy Muthusamy Karthika Nour Eldeen M Khalifa Madad Khan Kifayat Ullah Valeri Kroumov Tapan Kumar Roy Deepesh Kunwar Le Thi Nhung Pedro L pez Mai Mohamed Manh Van Vu Miguel A Quiroz Mart nez Marcel Migdalovici Kritika Mishra Mohamed Abdel Basset Mohamed Talea Mohammad Hamidi Mohammed Alshumrani Mohamed Loey Muhammad Akram Muhammad Shabir Mumtaz Ali Nassim Abbas Munazza Naz Ngan Thi Roan Nguyen Xuan Thao Rishwanth Mani Parimala Ion P tra cu Surapati Pramanik Quek Shio Gai Qiang Guo Rajab Ali Borzooei Nimitha Rajesh Jes s Estupi an Ricardo Juan Miguel Mart nez Rubio Saeed Mirvakili Arsham Borumand Saeid Saeid Jafari Said Broumi Ahmed A Salama Nirmala Sawan Gheorghe S voiu Ganeshsree Selvachandran Seok Zun Song Shahzaib Ashraf Jayant Singh Rajesh Singh Son Hoang Le Tahir Mahmood Kenta Takaya Mirela Teodorescu Ramalingam Udhayakumar Maikel Y Leyva V zquez V Venkateswara Rao Luige Vl d reanu Victor Vl d reanu Gabriela Vl deanu Michael Voskoglou Yaser Saber Yong Deng You He Youcef Chibani Young Bae Jun Wadei F Al Omeri Hongbo Wang Zayen Azzouz Omar

Decomposability of Tensors Luca Chiantini,2019-02-15 This book is a printed edition of the Special Issue Decomposability of Tensors that was published in Mathematics

Smart Infrastructure and Applications Rashid Mehmood,Simon See,Iyad Katib,Imrich Chlamtac,2019-06-20 This book provides a multidisciplinary view of smart infrastructure through a range of diverse introductory and advanced topics The book features an array of subjects that include smart cities and infrastructure e healthcare emergency and disaster management Internet of Vehicles supply chain management eGovernance and high performance computing The book is divided into five parts Smart Transportation Smart Healthcare Miscellaneous Applications Big Data and High Performance Computing and Internet of Things IoT Contributions are from academics researchers and industry professionals around the world Features a broad mix of topics related to smart infrastructure and smart applications particularly high performance computing big data and artificial intelligence Includes a strong emphasis on methodological aspects of infrastructure technology and application development Presents a substantial overview of research and development on key economic sectors including healthcare and transportation

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