

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

**Christian Harteis, Andreas
Rausch, Jürgen Seifried**



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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 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 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 **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

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

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

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

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

Shell Structures: Theory and Applications Volume 4

Wojciech Pietraszkiewicz, Wojciech Witkowski, 2017-10-30 Shells are basic structural elements of modern technology and everyday life Examples of shell structures in technology include automobile bodies water and oil tanks pipelines silos wind turbine towers and nanotubes Nature is full of living shells such as leaves of trees blooming flowers seashells cell membranes

or wings of insects In the human body arteries the eye shell the diaphragm the skin and the pericardium are all shells as well Shell Structures Theory and Applications Volume 4 contains 132 contributions presented at the 11th Conference on Shell Structures Theory and Applications Gdansk Poland 11-13 October 2017 The papers reflect a wide spectrum of scientific and engineering problems from theoretical modelling through strength stability and dynamic behaviour numerical analyses biomechanic applications up to engineering design of shell structures Shell Structures Theory and Applications Volume 4 will be of interest to academics researchers designers and engineers dealing with modelling and analyses of shell structures It may also provide supplementary reading to graduate students in Civil Mechanical Naval and Aerospace Engineering

Discourses on Professional Learning Christian Harteis, Andreas Rausch, Jürgen Seifried, 2014-06-30 This book analyses and elaborates on learning processes within work environments and explores professional learning It presents research indicating general characteristics of the work environment that support learning as well as barriers to workplace learning Themes of professional development lifelong learning and business organisation emerge through the chapters and contributions explore theoretical and empirical analyses on the boundary between working and learning in various contexts and with various methodological approaches Readers will discover how current workplace learning approaches can emphasise the learning potential of the work environment and how workplaces can combine the application of competence that is working with its acquisition or learning Through these chapters we learn about the educational challenge to design workplaces as environments of rich learning potential without neglecting business demands Expert authors explore how learning and working are both to be considered as two common aspects of an individual's activity Complexity significance integrity and variety of assigned work tasks as well as scope of action interaction and feedback within its processing turn out to be crucial work characteristics amongst others revealed in these chapters Part of the Professional and Practice based Learning series this book will appeal to anyone with an interest in workplaces as learning environments those within government community or business agencies and within the research communities in education psychology sociology and business management will find it of great interest

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

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

ECCWS2016-Proceedings fo the 15th European Conference on Cyber Warfare and Security " Robert Koch,Gabi Rodosek,2016-06-15 These proceedings represent the work of researchers participating in the 15th European Conference on Cyber Warfare and Security ECCWS 2016 which is being hosted this year by the Universitat der Bundeswehr Munich Germany on the 7 8 July 2016 ECCWS is a recognised event on the International research conferences calendar and provides a valuable plat form for individuals to present their research findings display their work in progress and discuss conceptual and empirical advances in the area of Cyberwar and Cyber Security It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and ex panding range of Cyberwar and Cyber Security research available to them With an initial submission of 110 abstracts after the double blind peer review process there are 37 Academic research papers and 11 PhD research papers 1 Master s research paper 2 Work In Progress papers and 2 non academic papers published in these Conference Proceedings These papers come from many different coun tries including Austria Belgium Canada Czech Republic Finland France Germany Greece Hungary Ireland Kenya Luxembourg Netherlands Norway Portugal Romania Russia Slovenia South Africa Sweden Turkey UK and USA This is not only highlighting the international character of the conference but is also promising very interesting discussions based on the broad treasure trove of experience of our community and partici pants

Selected Papers from the ICEUBI2019 - International Congress on Engineering - Engineering for Evolution Maria do Rosário Alves Calado,Jorge Miguel dos Reis Silva,2021-08-16 Energies SI Book Selected Papers from the ICEUBI2019 International Congress on Engineering Engineering for Evolution groups six papers into fundamental engineering areas Aeronautics and Astronautics and Electrotechnical and Mechanical Engineering ICEUBI International Congress on Engineering is organized every two years by the Engineering Faculty of Beira Interior University Portugal promoting engineering in society through contact among researchers and practitioners from different fields of engineering and thus encouraging the dissemination of engineering research innovation and development All selected papers are interrelated with energy topics fundamentals sources exploration conversion and policies and provide relevant data for academics research focused practitioners and policy makers

Advances in Water Resources Engineering Chih Ted Yang, Lawrence K. Wang, 2014-12-06 This book Advances in Water Resources Engineering Volume 14 covers the topics on watershed sediment dynamics and modeling integrated simulation of interactive surface water and groundwater systems river channel stabilization with submerged vanes non equilibrium sediment transport reservoir sedimentation and fluvial processes minimum energy dissipation rate theory and

applications hydraulic modeling development and application geophysical methods for assessment of earthen dams soil erosion on upland areas by rainfall and overland flow geofluvial modeling methodologies and applications and environmental water engineering glossary

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 Hadjadj 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 Vasanth 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

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

Parallel Computing: On the Road to Exascale Gerhard R. Joubert, Hugh Leather, Mark Parsons, Frans Peters, 2016-04-15 As predicted by Gordon E Moore in 1965 the performance of computer processors increased at an exponential rate Nevertheless the increases in computing speeds of single processor machines were eventually curtailed by physical constraints This led to the development of parallel computing and whilst progress has

been made in this field the complexities of parallel algorithm design the deficiencies of the available software development tools and the complexity of scheduling tasks over thousands and even millions of processing nodes represent a major challenge to the construction and use of more powerful parallel systems This book presents the proceedings of the biennial International Conference on Parallel Computing ParCo2015 held in Edinburgh Scotland in September 2015 Topics covered include computer architecture and performance programming models and methods as well as applications The book also includes two invited talks and a number of mini symposia Exascale computing holds enormous promise in terms of increasing scientific knowledge acquisition and thus contributing to the future well being and prosperity of mankind A number of innovative approaches to the development and use of future high performance and high throughput systems are to be found in this book which will be of interest to all those whose work involves the handling and processing of large amounts of data

Artificial Intelligence Research and Development Vicenç Torra, Isabel Aguiló, Manuel González-Hidalgo, 2019-10-15 Artificial intelligence has now become an indispensable tool at the centre of problem solving in a huge range of digital technologies and remains one of the most vibrant topics for discussion and research This book presents a compilation of the articles presented at the 22nd 2019 edition of the International Conference of the Catalan Association for Artificial Intelligence CCIA held in Mallorca Spain from 23-25 October 2019 This annual conference is an international event that serves as a meeting point for researchers into artificial intelligence based in the area of the Catalan speaking territories and for researchers from around the world The book is divided into 8 sections The first contains summaries of the 3 invited talks presented at the conference New methods for fusing information and the computational brain by Javier Fernandez From correlation to imagination Deep generative models for artificial intelligence by Joan Serr and Explainable AI by Anna Monreale The remaining 7 sections contain 47 papers covering ethics and E governance machine learning constraints and SAT optimization and fuzzy data science recommender systems and decision support systems agent based and multi agent systems computer vision and sentiment analysis and text analysis The book provides an overview of the latest developments in the field and as such will be of interest to all those whose work involves the study and application of artificial intelligence

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