Grade 12 tasks:

Grade 12 learners must complete 7 formal assessment tasks.

Term 1: an assignment, a project or investigation and a test — **3 SBA tasks**
Term 2: a test and the midyear examination — **2 SBA tasks**
Term 3: a test and a midyear examination — **2 SBA tasks**

These exemplars will not deal with the two examinations as we are still waiting for the national examination guidelines. The test for each term may be compiled from the topical assignments.

Term 1

Topical Assignments

Topic 1: Sequences and series

Question 1

1.1 Consider the sequence: $6 ; 10 ; 16 ; 24 ; 34 ; \ldots$

1.1.1 If the sequence behaves consistently, determine the next two terms of the sequence. (2)

1.1.2 Calculate a formula for the nth term of the sequence. (5)

1.1.3 Use your formula to calculate n if the nth term in the sequence is 1264. (3)

1.2 Consider the following sequence 6, 18, 54, 162 ....

1.2.1 If the formula for the general term of the sequence is $T_n = a r^{n-1}$, give the value of a and r. (2)

1.2.2 Which term of the sequence is equal to 1458? (4)

Given the geometric series $5_1 (3)^4 + 5_1 (3)^5 + 5_1 (3)^7 + \ldots$

1.3.1 Explain why the series converges. (2)

1.3.2 Calculate the sum to infinity of the series. (3)

1.3.3 Calculate the sum of the first 9 terms of the series, correct to **TWO** decimal places. (4)

1.3.4 Use your answers to QUESTION 1.3.2 and QUESTION 1.3.3 to determine
$$\sum_{n=10}^{\infty} 5.(3)^{n-1}$$
(correct to **TWO** decimal places) (2)

Maths Paper 1 972013

Kathleen Armour

Maths Paper 1 972013:

Operations Research Proceedings 2021 Norbert Trautmann,Mario Gnägi,2022-08-29 This book gathers a selection of peer reviewed papers presented at the International Conference on Operations Research OR 2021 which was hosted online by the University of Bern from August 31 to September 3 2021 and was jointly organized by the Operations Research Societies of Switzerland SVOR ASRO Germany GOR e V and Austria GOR The respective papers discuss classical mathematical optimization statistics and simulation techniques These are complemented by computer science methods and by tools for processing data designing and implementing information systems The book also examines recent advances in information technology which allow massive volumes of data to be processed and enable real time predictive and prescriptive business analytics to drive decisions and actions Lastly it presents a selection of problems that are modeled and treated while taking into account uncertainty risk management behavioral issues etc **Parallel Processing and Applied Mathematics** Roman Wyrzykowski,Jack Dongarra,Ewa Deelman,Konrad Karczewski,2018-03-22 The two volume set LNCS 10777 and 10778 constitutes revised selected papers from the 12th International Conference on Parallel Processing and Applied Mathematics PPAM 2017 held in Lublin Poland in September 2017 The 49 regular papers presented in this volume were selected from 98 submissions For the workshops and special sessions that were held as integral parts of the PPAM 2017 conference a total of 51 papers was accepted from 75 submissions The papers were organized in topical sections named as follows Part I numerical algorithms and parallel scientific computing particle methods in simulations task based paradigm of parallel computing GPU computing parallel non numerical algorithms performance evaluation of parallel algorithms and applications environments and frameworks for parallel distributed cloud computing applications of parallel computing soft computing with applications and special session on parallel matrix factorizations Part II workshop on models algorithms and methodologies for hybrid parallelism in new HPC systems workshop power and energy aspects of computations PEAC 2017 workshop on scheduling for parallel computing SPC 2017 workshop on language based parallel programming models WLPP 2017 workshop on PGAS programming minisymposium on HPC applications in physical sciences minisymposium on high performance computing interval methods workshop on complex collective systems **Simulation Science** Marcus Baum,Gunther Brenner,Jens Grabowski,Thomas Hanschke,Stefan Hartmann,Anita Schöbel,2018-08-07 This book constitutes the thoroughly refereed proceedings of the Clausthal G ttingen International Workshop on Simulation Science held in G ttingen Germany in April 2017 The 16 full papers presented were carefully reviewed and selected from 40 submissions The papers are organized in topical sections on simulation and optimization in networks simulation of materials distributed simulations *Recent Advances in Swarm Intelligence and Evolutionary Computation* Xin-She Yang,2014-12-27 This timely review volume summarizes the state of the art developments in nature inspired algorithms and applications with the emphasis on swarm intelligence and bio inspired computation Topics include the analysis and overview of swarm intelligence

and evolutionary computation hybrid metaheuristic algorithms bat algorithm discrete cuckoo search firefly algorithm particle swarm optimization and harmony search as well as convergent hybridization Application case studies have focused on the dehydration of fruits and vegetables by the firefly algorithm and goal programming feature selection by the binary flower pollination algorithm job shop scheduling single row facility layout optimization training of feed forward neural networks damage and stiffness identification synthesis of cross ambiguity functions by the bat algorithm web document clustering truss analysis water distribution networks sustainable building designs and others As a timely review this book can serve as an ideal reference for graduates lecturers engineers and researchers in computer science evolutionary computing artificial intelligence machine learning computational intelligence data mining engineering optimization and designs **Oswaal One For All Olympiad Class 6 Mathematics | Previous Years Solved Papers | For 2024-25 Exam** Oswaal Editorial Board,2024-03-27 Description of the Product Crisp Revision with Concept wise Revision Notes Mind Maps 100% Exam Readiness with Previous Years Questions from all leading Olympiads like IMO NSO ISO Hindustan Olympiad Valuable Exam Insights with 3 Levels of Questions Level1 2 Achievers Concept Clarity with 500 Concepts 50 Concepts Videos Extensive Practice with Level 1 Level 2 Practice Papers **Oswaal One For All Olympiad Previous Years' Solved Papers, Class-6 Mathematics Book (For 2023 Exam)** Oswaal Editorial Board,2023-04-08 Description of the Product Crisp Revision with Concept wise Revision Notes Mind Maps 100% Exam Readiness with Previous Years Questions 2011 2022 Valuable Exam Insights with 3 Levels of Questions Level1 2 Achievers Concept Clarity with 500 Concepts 50 Concepts Videos Extensive Practice with Level 1 Level 2 Practice Papers **Game Theory for Networking Applications** Ju Bin Song,Husheng Li,Marceau Coupechoux,2018-08-20 This book provides recent results of game theory for networking applications The contributors address the major opportunities and challenges in applying traditional game theory as well as intelligent game theory to the understanding and designing of modern network systems with emphasis on both new analytical techniques and novel application scenarios After an overview of game theory for networks the book narrows in on game theory in communications game theory in wireless networks and game theory applications The book features contributions from researchers and professionals around the world Presents a variety of perspectives on game theory for networking applications Shows how game theory can apply to the study of data traffic new generation networks and smartgrid Includes recent results of applied game theory for networks providing some technical progresses in GAMENETS **Intelligent Systems and Applications** Kohei Arai,2021-08-06 This book presents Proceedings of the 2021 Intelligent Systems Conference which is a remarkable collection of chapters covering a wider range of topics in areas of intelligent systems and artificial intelligence and their applications to the real world The conference attracted a total of 496 submissions from many academic pioneering researchers scientists industrial engineers and students from all around the world These submissions underwent a double blind peer review process Of the total submissions 180 submissions have been selected to be included in

these proceedings As we witness exponential growth of computational intelligence in several directions and use of intelligent systems in everyday applications this book is an ideal resource for reporting latest innovations and future of AI The chapters include theory and application on all aspects of artificial intelligence from classical to intelligent scope We hope that readers find the book interesting and valuable it provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research   Information Security and Cryptology Dongdai Lin,Meiqin Wang,Moti Yung,2025-05-02 The two volume set LNCS 15543 and 15544 constitutes revised selected papers of the 20th International Conference on Information Security and Cryptology Inscrypt 2024 held in Kunming China during December 14 16 2024 The 46 full papers presented in these proceedings were carefully reviewed and selected from 156 submissions The papers were organized in the following topical sections Part I Big data and cloud security Foundations of Cryptography Implementation of Cryptosystems Key Exchange AI and Security Security Analysis Privacy enhancing technologies Watermarking Part II Public Key Cryptosystems Security Protocols Analysis Symmetric Cryptanalysis Quantum and Post Quantum Cryptography   Intelligent Computer Mathematics Jacques Carette,David Aspinall,Christoph Lange,Petr Sojka,Wolfgang Windsteiger,2013-07-01 This book constitutes the joint refereed proceedings of the 20th Symposium on the Integration of Symbolic Computation and Mechanized Reasoning Calculemus 2013 6th International Workshop on Digital Mathematics Libraries DML 2013 Systems and Projects held in Bath UK as part of CICM 2013 the Conferences on Intelligent Computer Mathematics The 7 revised full papers out of 18 submissions for MKM 2013 5 revised full papers out of 12 submissions for Calculemus 2013 6 revised full papers out of 8 submissions for DML 2013 and 12 revised full papers out of 16 submissions for Systems and Project track presented together with 3 invited talks were carefully reviewed and selected resulting in 33 papers from a total of 73 submissions   **Proceedings of the 20th International Symposium on Management (INSYMA 2023)** Werner Ria Murhadi,Dudi Anandya,Noviaty Kresna Darmasetiawan,Juliani Dyah Trisnawati,Putu Anom Mahadwartha,Elsye Tandelilin,2023-09-30 This is an open access book With the rapid advancement of augmented reality blockchain and the internet the metaverse is now within reach like never before Companies are continuously pushing the boundaries of innovation to cater to the ever evolving needs of consumers They employ a diverse range of strategies to elevate the value of their products and stay ahead of the competition However not every company manages to achieve this feat often due to resource limitations and the ability to understand dynamic market trends The 20th INSYMA International Symposium on Management is bringing you further into the metaverse This year s theme is The Metaverse and Beyond Opportunity or Disaster New Realities In Workplaces   **Advanced Materials for Sustainable Energy and Engineering** El Mehdi Elkhattabi,Mourad Boutahir,Konstantinos Termentzidis,Kohji Nakamura,Abdelhai Rahmani,2024-06-30 This book presents selected peer reviewed proceedings from the International Conference on Advanced Materials Sustainable Energy and Engineering ICAMSEE2023 held at Ecole Normale Sup rieure University Moulay Ismail

Meknes Morocco from November 27 to 29 2023 The conference served as an exceptional platform for international and national scientists professors students and industry professionals to convene and exchange knowledge in the fields of materials science microscopy engineering technology and energy The book features contributions from researchers and experts including keynote speakers special sessions posters and tutorials showcasing the latest advancements and developments in these areas of research The topics covered in this book span a wide array of subjects within the realm of advanced materials sustainable energy and engineering The forefront of materials science is explored including nanomaterials carbon nanotubes graphene materials for various applications environmental protection advanced optical materials thermoelectric and magnetic materials and additive manufacturing Addressing the energy demands of today the focus extends to novel materials for solar cells energy storage electronic devices solar and wind energy advanced thermal management materials and materials for advanced water treatment and desalination Sustainable energy and engineering topics encompass energy policy clean energy production technologies carbon capture and utilization biomass energy building energy efficiency smart systems for climate change and energy efficiency in mineral processing Additionally the book covers modeling and numerical simulations in material science encompassing model development computational techniques and simulations in both material science and energy fields **Long-run behavior of interval neutrosophic Markov chain** D. Nagarajan,M. Lathamaheswari,Said Broumi,J. Kavikumar,Florentin Smarandache, As the world is a competitive one prediction of the future trend is an important task for the survival of any organization There are many statistical and technical methods available for doing this task and this can be done in an optimized way using Markov chain with time series where random changes are allowed Markov chains are an essential technique in random process underlying the Markov property 1 Longrun behavior is the behavior of the system where each and every input can be different and the free entry is unconditional In addition the cost of this behavior is the minimum of short run behavior **Spectral and High Order Methods for Partial Differential Equations ICOSAHOM 2016** Marco L. Bittencourt,Ney A. Dumont,Jan S. Hesthaven,2017-11-07 This book features a selection of high quality papers chosen from the best presentations at the International Conference on Spectral and High Order Methods 2016 offering an overview of the depth and breadth of the activities within this important research area The carefully reviewed papers provide a snapshot of the state of the art while the extensive bibliography helps initiate new research directions **Oswaal One For All Olympiad Previous Years' Solved Papers Class 6 (Set of 6 Books) Maths, English, Science, Reasoning, Cyber & General Knowledge (For 2024-25 Exam)** ,2024-04-16 Description of the Product Crisp Revision with Concept wise Revision Notes Mind Maps 100% Exam Readiness with Previous Years Questions from all leading Olympiads like IMO NSO ISO Hindustan Olympiad Valuable Exam Insights with 3 Levels of Questions Level1 2 Achievers Concept Clarity with 500 Concepts 50 Concepts Videos Extensive Practice with Level 1 Level 2 Practice Papers *Data Science: From Research to Application* Mahdi

Bohlouli,Bahram Sadeghi Bigham,Zahra Narimani,Mahdi Vasighi,Ebrahim Ansari,2020-01-28 This book presents outstanding theoretical and practical findings in data science and associated interdisciplinary areas Its main goal is to explore how data science research can revolutionize society and industries in a positive way drawing on pure research to do so The topics covered range from pure data science to fake news detection as well as Internet of Things in the context of Industry 4 0 Data science is a rapidly growing field and as a profession incorporates a wide variety of areas from statistics mathematics and machine learning to applied big data analytics According to Forbes magazine Data Science was listed as LinkedIn s fastest growing job in 2017 This book presents selected papers from the International Conference on Contemporary Issues in Data Science CiDaS 2019 a professional data science event that provided a real workshop not listen shop where scientists and scholars had the chance to share ideas form new collaborations and brainstorm on major challenges and where industry experts could catch up on emerging solutions to help solve their concrete data science problems Given its scope the book will benefit not only data scientists and scientists from other domains but also industry experts policymakers and politicians

Optimization Theory Based on Neutrosophic and Plithogenic Sets Florentin Smarandache,Mohamed Abdel-Basset,2020-01-14 Optimization Theory Based on Neutrosophic and Plithogenic Sets presents the state of the art research on neutrosophic and plithogenic theories and their applications in various optimization fields Its table of contents covers new concepts methods algorithms modelling and applications of green supply chain inventory control problems assignment problems transportation problem nonlinear problems and new information related to optimization for the topic from the theoretical and applied viewpoints in neutrosophic sets and logic All essential topics about neutrosophic optimization and Plithogenic sets make this volume the only single source of comprehensive information New and innovative theories help researchers solve problems under diverse optimization environments Varied applications address practitioner fields such as computational intelligence image processing medical diagnosis fault diagnosis and optimization design

Security and Privacy in New Computing Environments Jin Li,Zheli Liu,Hao Peng,2019-06-07 This book constitutes the refereed proceedings of the 2nd EAI International Conference on Security and Privacy in New Computing Environments SPNCE 2019 held in Tianjin China in April 2019 The 62 full papers were selected from 112 submissions and are grouped into topics on privacy and security analysis Internet of Things and cloud computing system building scheme model and application for data mechanism and method in new computing   *Geometric Methods in Physics* Piotr Kielanowski,S. Twareque Ali,Alexander Odesskii,Anatol Odzijewicz,Martin Schlichenmaier,Theodore Voronov,2013-07-30 The Bia owie a workshops on Geometric Methods in Physics taking place in the unique environment of the Bia owie a natural forest in Poland are among the important meetings in the field Every year some 80 to 100 participants both from mathematics and physics join to discuss new developments and to interchange ideas The current volume was produced on the occasion of the XXXI meeting in 2012 For the first time the workshop was followed by a School on Geometry and Physics which consisted of

advanced lectures for graduate students and young researchers Selected speakers of the workshop were asked to contribute and additional review articles were added The selection shows that despite its now long tradition the workshop remains always at the cutting edge of ongoing research The XXXI workshop had as a special topic the works of the late Boris Vasilievich Fedosov 1938 2011 who is best known for a simple and very natural construction of a deformation quantization for any symplectic manifold and for his contributions to index theory **Supercomputing** Vladimir Voevodin,Sergey Sobolev,2019-12-09 This book constitutes the refereed post conference proceedings of the 5th Russian Supercomputing Days RuSCDays 2019 held in Moscow Russia in September 2019 The 60 revised full papers presented were carefully reviewed and selected from 127 submissions The papers are organized in the following topical sections parallel algorithms supercomputer simulation HPC BigData AI architectures technologies tools and distributed and cloud computing

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