

EDEXCEL DECISION MATHEMATICS D1 (6689) – JANUARY 2013 FINAL MARK SCHEME

Question Number	Scheme	Marks																				
1 (a)	<table><tr><th>N</th><th>E</th><th>R</th><th>Qn</th></tr><tr><td>72</td><td>8</td><td>8.5</td><td>N</td></tr><tr><td></td><td>8.5</td><td>8.485 294 118</td><td>N</td></tr><tr><td></td><td>8.485 294 118</td><td>8.485 281 374</td><td>N</td></tr><tr><td></td><td>8.485 281 374</td><td>8.485 281 374</td><td>Y</td></tr></table>	N	E	R	Qn	72	8	8.5	N		8.5	8.485 294 118	N		8.485 294 118	8.485 281 374	N		8.485 281 374	8.485 281 374	Y	M1 A1
	N	E	R	Qn																		
	72	8	8.5	N																		
		8.5	8.485 294 118	N																		
	8.485 294 118	8.485 281 374	N																			
	8.485 281 374	8.485 281 374	Y																			
	Output is R = 8.485 281 4	A1																				
		A1 (4)																				
(b)	We would get a negative output for R/ We would get the negative square root	B1 (1)																				
(c)	E cannot be zero	B1 (1)																				
		Total 6 marks																				
2 (a)	Pivot 1 = $\left\lceil \frac{1+26}{2} \right\rceil = \lceil 13.5 \rceil = 14$ letter N reject A – N	M1 A1																				
	Pivot 2 = $\left\lceil \frac{1+26}{2} \right\rceil = \lceil 20.5 \rceil = 21$ letter U reject U – Z																					
	Pivot 3 = $\left\lceil \frac{1+26}{2} \right\rceil = \lceil 17.5 \rceil = 18$ letter R reject R – T	A1																				
	Pivot 4 = $\left\lceil \frac{1+26}{2} \right\rceil = 16$ letter P – located	A1 (4)																				
(b)	E.g. The maximum number of letters at the start of each iteration is 26, 13, 6, 3, 1 So a maximum of 5 iterations is necessary	M1 A1 (2) Total 6 marks																				

May 2013 D1 Mark Scheme

Eberhard Sauer



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Canadian think tanks often prioritize political advocacy over policy research and seeks to explain why these organizations are well suited and equipped to shape the discourse around key policy issues The first comprehensive examination of think tanks in Canada Northern Lights is both a primer for those looking to understand the role and function of think tanks in the policy making process and a guide to the leading policy institutes in the country *Advances in Cryptology - EUROCRYPT 2013*

Thomas Johansson, Phong Q. Nguyen, 2013-05-09 This book constitutes the proceedings of the 32nd Annual International Conference on the Theory and Applications of Cryptographic Techniques EUROCRYPT 2013 held in Athens Greece in May 2013 The 41 full papers included in this volume were carefully reviewed and selected from 201 submissions They deal with cryptanalysis of hash functions side channel attacks number theory lattices public key encryption digital signatures homomorphic cryptography quantum cryptography storage tools and secure computation **Oswaal CBSE Class 12th 20**

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ACCA Options P4 Advanced Financial Management Revision Kit 2014 BPP Learning Media, 2014-06-01 The examining team reviewed P4 Practice Revision Kit provides invaluable guidance on how to approach the exam Questions are grouped by key topic areas and integrated where appropriate Three mock examinations provide ample opportunity to practise questions and marking schemes show you how the examiner awards marks *Oswaal One for All Class 12 English, Physics, Chemistry & Mathematics (Set of 4 books) (For CBSE Board Exam 2024)* Oswaal Editorial Board, 2023-07-31 Description of the product Strictly as per the latest CBSE Syllabus dated March 31 2023 Cir No Acad 39 2023 Acad45 2023 100 % Updated for 2023 24 with Latest Rationalised NCERT Textbooks Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year s Questions Board Marking Scheme Answers Valuable Exam Insights with 3000 NCERT Exemplar Questions Extensive Practice with Unit Wise Self Assessment Questions Practice Papers NEP Compliance with Competency based questions **Oswaal CBSE & NCERT One for All Class 12**

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questions **Proceedings of the 2nd International Conference on Intelligent Technologies and Engineering Systems (ICITES2013)** Jengnan Juang, Cheng-Yi Chen, Cheng-Fu Yang, 2014-04-18 This book includes the original peer reviewed research papers from the conference Proceedings of the 2nd International Conference on Intelligent Technologies and Engineering Systems ICITES2013 which took place on December 12 14 2013 at Cheng Shiu University in Kaohsiung Taiwan Topics covered include laser technology wireless and mobile networking lean and agile manufacturing speech processing microwave dielectrics intelligent circuits and systems 3D graphics communications and structure dynamics and control **Discrete Dynamical Systems and Chaotic Machines** Jacques M. Bahi, Christophe Guyeux, 2013-06-07 For computer scientists especially those in the security field the use of chaos has been limited to the computation of a small collection of famous but unsuitable maps that offer no explanation of why chaos is relevant in the considered contexts Discrete Dynamical Systems and Chaotic Machines Theory and Applications shows how to make finite machines such as computers neural networks and wireless sensor networks work chaotically as defined in a rigorous mathematical framework Taking into account that these machines must interact in the real world the authors share their research results on the behaviors of discrete dynamical systems and their use in computer science Covering both theoretical and practical aspects the book presents Key mathematical and physical ideas in chaos theory Computer science fundamentals clearly establishing that chaos properties can be satisfied by finite state machines Concrete applications of chaotic machines in computer security including pseudorandom number generators hash functions digital watermarking and steganography Concrete applications of chaotic machines in wireless sensor networks including secure data aggregation and video surveillance Until the authors recent research the practical implementation of the mathematical theory of chaos on finite machines raised several issues This self contained book illustrates how chaos theory enables the study of computer security problems such as steganalysis that otherwise could not be tackled It also explains how the theory reinforces existing cryptographically secure tools and schemes **Legal report on the ecosystem approach to fisheries in Guinea-Bissau** Nakamura, J.N., Amador, T., 2022-09-19 Legislating for the ecosystem approach to fisheries EAF is complex due to the holistic nature of the EAF involving multiple factors that underpin the social economic environmental and institutional aspects of fisheries sustainability These factors include ecosystems integration risks inter sectoral collaboration research participatory processes monitoring control surveillance and enforcement among others To assess how the EAF is being implemented through national policy and legal frameworks FAO developed A diagnostic tool for implementing an ecosystem approach to fisheries through national policy and legal frameworks The present legal report on the EAF used the diagnostic tool to assess the alignment of selected policy and legal instruments of Guinea Bissau with the EAF This assessment analysed the extent to which 82 EAF legal requirements which are considered the minimum standards in legislating for the EAF are reflected in Guinea Bissau s policies and legislation relevant to the fisheries sector of the country and other relevant sectors such as environment wildlife

ecosystems and maritime affairs Based on this preliminary diagnosis gaps were identified in the assessed instruments and recommendations were made for improving the implementation of the EAF This report was elaborated following a participatory approach with the involvement of the national competent authorities of Guinea Bissau Drafted in July 2021 the report was submitted to the national authorities of Guinea Bissau in October 2021 The Ministry of Fisheries through its Secretary General and Legal Office endorsed this EAF Legal Report of Guinea Bissau in July 2022 *ACCA Paper F9 - Financial Management Practice and revision kit* BPP Learning Media,2013-01-01 The examiner reviewed F9 Practice and Revision Kit provides invaluable guidance on how to approach the exam and contains past ACCA exam questions for you to try Questions are based on realistic scenarios and designed to help you understand and apply financial management techniques and marking schemes show you how the examiner awards marks **Human behavior, cognition, and**

environmental interactions for the lower paleolithic Marie-Hélène Moncel,John De Vos,Marta Arzarello,2023-06-08

Dariali: The 'Caspian Gates' in the Caucasus from Antiquity to the Age of the Huns and the Middle Ages Eberhard Sauer,2020-04-30 The Huns invading through Dariali Gorge on the modern day border between Russia and Georgia in AD 395 and 515 spread terror across the late antique world Was this the prelude to the apocalypse Prophecies foresaw a future Hunnic onslaught via the same mountain pass bringing about the end of the world Humanity s fate depended on a gated barrier deep in Europe s highest and most forbidding mountain chain Centuries before the emergence of such apocalyptic beliefs the gorge had reached world fame It was the target of a planned military expedition by the Emperor Nero Chained to the dramatic sheer cliffs framing the narrow passage the mythical fire thief Prometheus suffered severe punishment his liver devoured by an eagle It was known under multiple names most commonly the Caspian or Alan Gates Featuring in the works of literary giants no other mountain pass in the ancient and medieval world matches Dariali s fame Yet little was known about the materiality of this mythical place A team of archaeologists has now shed much new light on the major gorge blocking fort and a barrier wall on a steep rocky ridge further north The walls still standing today were built around the time of the first major Hunnic invasion in the late fourth century when the Caucasus defenses feature increasingly prominently in negotiations between the Great Powers of Persia and Rome In its endeavor to strongly fortify the strategic mountain pass through the Central Caucasus the workforce erased most traces of earlier occupation The Persian built bastion saw heavy occupation for 600 years Its multi faith medieval garrison controlled Trans Caucasian traffic Everyday objects and human remains reveal harsh living conditions and close connections to the Muslim South as well as the steppe world of the north The Caspian Gates explains how a highly strategic rock has played a pivotal role in world history from Classical Antiquity into the twentieth century Media Ethics Clifford G. Christians,Mark Fackler,Peggy J. Kreshel,Kathy Brittain Richardson,2020-03-26 Media Ethics Cases and Moral Reasoning challenges readers to think analytically about ethical situations in mass communication through original case studies and commentaries about real life media experiences This text

provides a comprehensive introduction to the theoretical principles of ethical philosophies facilitating ethical awareness It introduces the Potter Box with its four dimensions of moral analysis to provide a framework for exploring the steps in moral reasoning and analyzing the cases Focusing on a wide spectrum of ethical issues faced by media practitioners the cases in this Eleventh Edition include the most recent issues in journalism broadcasting advertising public relations and entertainment Cases touch on issues and places worldwide from Al Jazeera to the Xinhua News Agency from Nigerian brown envelopes to PR professional standards in South Africa Racially divisive language comes up in different communication contexts as does celebrity influence on culture A core textbook for classes in media ethics communication ethics and ethics in journalism public relations and advertising *Technological Breakthroughs in Modern Wireless Sensor Applications* Sharif, Hamid, Kavian, Yousef S., 2015-03-31 Collecting and processing data is a necessary aspect of living in a technologically advanced society Whether it's monitoring events controlling different variables or using decision making applications it is important to have a system that is both inexpensive and capable of coping with high amounts of data *Technological Breakthroughs in Modern Wireless Sensor Applications* brings together new ways to process and monitor data and to put it to work in everything from intelligent transportation systems to healthcare to multimedia applications This book is an essential reference source for research and development engineers graduate students academics and researchers interested in intelligent engineering internetworking routing and network planning algorithms **Numerical Solution of Time-Dependent Advection-Diffusion-Reaction Equations** Willem Hundsdorfer, Jan G. Verwer, 2013-04-17 This book deals with numerical methods for solving partial differential equations PDEs coupling advection diffusion and reaction terms with a focus on time dependency A combined treatment is presented of methods for hyperbolic problems thereby emphasizing the one way wave equation methods for parabolic problems and methods for stiff and non stiff ordinary differential equations ODEs With regard to time dependency we have attempted to present the algorithms and the discussion of their properties for the three different types of differential equations in a unified way by using semi discretizations i.e the method of lines whereby the PDE is transformed into an ODE by a suitable spatial discretization In addition for hyperbolic problems we also discuss discretizations that use information based on characteristics Due to this combination of methods this book differs substantially from more specialized textbooks that deal exclusively with numerical methods for either PDEs or ODEs We treat integration methods suitable for both classes of problems This combined treatment offers a clear advantage On the one hand in the field of numerical ODEs highly valuable methods and results exist which are of practical use for solving time dependent PDEs something which is often not fully exploited by numerical PDE researchers Although many problems can be solved by Euler's method or the Crank Nicolson method better alternatives are often available which can significantly reduce the computational effort needed to solve practical problems **Theoretical and Mathematical Physics**, 1975

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