



ZIMBABWE SCHOOL EXAMINATIONS COUNCIL General Certificate of Education Ordinary Level

MATHEMATICS

4004/2

PAPER 2

NOVEMBER 2022 SESSION

2 hours 30 minutes

Additional materials: Mathematical Instruments Mathematical Tables Non programmable Electronic Calculator Plain Paper (1 sheet) Graph Paper (4 sheets) Answer Paper

Time 2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES

Write your Name, Centre number and Candidate number in the spaces provided on the answer paper/answer booklet.

Answer all questions in Section A and any four questions from Section B.

Write your answers on the separate answer paper provided.

If you use more than one sheet of paper, fasten the sheets together.

All working must be clearly shown on the same sheet as the rest of the answer.

Omission of essential working will result in loss of marks.

If the degree of accuracy is not specified in the question and if the answer is not exact, the answer should be given correct to three significant figures. Answers in degrees should be given correct to one decimal place.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question. Mathematical tables and Non-programmable electronic calculators may be used to evaluate explicit numerical expressions.

This question paper consists of 9 printed pages and 3 blank pages.

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COMMERC NEEDS

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Leaked June 2014 Papers

Johan Lidberg, Denis Muller

Leaked June 2014 Papers:

Artificial Intelligence and Security Xingming Sun, Zhaoging Pan, Elisa Bertino, 2019-07-18 The 4 volume set LNCS 11632 until LNCS 11635 constitutes the refereed proceedings of the 5th International Conference on Artificial Intelligence and Security ICAIS 2019 which was held in New York USA in July 2019 The conference was formerly called International Conference on Cloud Computing and Security with the acronym ICCCS The total of 230 full papers presented in this 4 volume proceedings was carefully reviewed and selected from 1529 submissions. The papers were organized in topical sections as follows Part I cloud computing Part II artificial intelligence big data and cloud computing and security Part III cloud computing and security information hiding IoT security multimedia forensics and encryption and cybersecurity Part IV encryption and cybersecurity Reconceptualising Unaccompanied Child Asylum Seekers and the Law Jennifer L. Whelan, 2022-09-30 Unaccompanied child asylum seekers are amongst the world's most vulnerable populations and their numbers are increasing The intersection of their age their seeking asylum and separation from their parents creates a specific and acute triple burden of vulnerability Their precariousness has long been recognised in international human rights law Yet human rights based responses have been subordinated to progressive global securitisation of irregular migration through interception interdiction extraterritorial processing and immigration detention Such an approach necessitates an urgent paradigm shift in how we comprehend their needs as children the impact of punitive border control laws on them and the responsibility of States to these children when they arrive at their borders seeking asylum This book reconceptualises the relationship between unaccompanied child asylum seekers and States It proposes a new conceptual framework by applying international human rights law childhood studies and vulnerability theory scholarship in analysing State obligations to respond to these children This framework incorporates a robust analysis of the operation and impact of laws on vulnerable populations a taxonomy for articulating the gravity of any consequent harms and a method to prioritise recommendations for reform The book then illustrates the framework sutility using Australia s treatment of unaccompanied children as a case study This book illuminates key learnings from human rights law childhood studies and vulnerability theory and transforms them into a new roadmap for law reform As such it will be a valuable practice based resource for practitioners non government organisations advocates policymakers and the general public interested in advocating for the rights of vulnerable populations as well as for academics researchers and students of human rights law refugee law childhood studies and vulnerability studies **Data Protection Law and Emotion** Damian Clifford,2024-04-10 Data protection law is often positioned as a regulatory solution to the risks posed by computational systems Despite the widespread adoption of data protection laws however there are those who remain sceptical as to their capacity to engender change Much of this criticism focuses on our role as data subjects It has been demonstrated repeatedly that we lack the capacity to act in our own best interests and what is more that our decisions have negative impacts on others Our decision making limitations seem to be the inevitable by product of the technological social and economic reality Data protection law bakes in these limitations by providing frameworks for notions such as consent and subjective control rights and by relying on those who process our data to do so fairly Despite these valid concerns Data Protection Law and Emotion argues that the in effectiveness of these laws are often more difficult to discern than the critical literature would suggest while also emphasizing the importance of the conceptual value of subjective control These points are explored and indeed exposed by investigating data protection law through the lens of the insights provided by law and emotion scholarship and demonstrating the role emotions play in our decision making The book uses the development of Emotional Artificial Intelligence a particularly controversial technology as a case study to analyse these issues Original and insightful Data Protection Law and Emotion offers a unique contribution to a contentious debate that will appeal to students and academics in data protection and privacy policymakers practitioners and regulators **Cybersecurity in the European Union** George Christou, 2016-01-26 Cybercrime affects over 1 million people worldwide a day and cyber attacks on public institutions and businesses are increasing This book interrogates the European Union's evolving cybersecurity policies and strategy and argues that while progress is being made much remains to be done to ensure a secure and resilient cyberspace in the future Capacity Mechanisms in the EU Energy Market Leigh Hancher, Adrien de Hauteclocque, Malgorzata Sadowska, 2015-09-24 Ensuring an adequate long term energy supply is a paramount concern in Europe EU member states now intervene by encouraging investment in generation capacity offering an additional revenue stream for conventional power plants in addition to the existing heavily subsidised investments in renewable energy sources These capacity remuneration mechanisms or simply capacity mechanisms have become a hot topic in the wider European regulatory debate European electricity markets are increasingly interconnected so the introduction of a capacity mechanism in one country not only distorts its national market but may have unforeseeable consequences for neighbouring electricity markets If these mechanisms are adopted by several member states with no supra national coordination and no consideration for their cross border impact they may cause serious market distortions and put the future of the European internal electricity market at risk This book provides readers with an in depth analysis of capacity mechanisms written by an expert team of policy makers economists and legal professionals It will be a first point of reference for regulators and policy makers responsible for designing optimal capacity mechanisms in Europe and will be an invaluable resource for academics and practitioners in the fields of energy regulation and competition **Defving the Dragon** Stephen Vines, 2021-04-08 Defying the Dragon tells a remarkable story of audacity of how the people of Hong Kong challenged the PRC s authority just as its president reached the height of his powers Is Xi s China as unshakeable as it seems What are its real interests in Hong Kong Why are Beijing's time honoured means of control no longer working there And where does this leave Hongkongers themselves Stephen Vines has lived in Hong Kong for over three decades His book shrewdly unpacks the Hong Kong China relationship and its wider significance right up to the astonishing convergence of

political turmoil and international crisis with Covid 19 and the 2020 21 crackdown Vividly describing the uprising from street level Vines explains how and why it unfolded and its global repercussions Now the international community is reassessing relations with Beijing just as Hong Kong s rebellion and China s handling of the pandemic have exposed the regime s weakness In a crisis that has become existential all round what lies ahead for Hong Kong China and the world *The World's Paper Trade Review*, 1921 **Parliamentary Papers** Great Britain. Parliament. House of Commons, 1908

Sessional Papers Great Britain. Parliament. House of Commons, 1908 Special Papers .1934 Interest limitation for tax legislation in the European Union. An obstruction of fundamental freedoms? The Duy Anh Nguyen, 2023-07-31 Bachelor Thesis from the year 2022 in the subject Law Tax Fiscal Law grade 2 0 Rhine Waal University of Applied Sciences language English abstract Tax planning is a practice used by many corporations in order to minimise their tax paid while being able to maximise their profits One common way to undertake such conduct is by increasing the negative components of the tax base computation for example the interest expense deductibility. This practice is deemed harmful by many lawmakers as it will imperil its tax legislation Hence to tackle this behaviour the European Union has adopted an Anti Tax Avoidance Directive in 2016 where the rules on interest expense as a tax planning tool are addressed in Article 4 The Directive is to be transposed into the Member States tax laws Nevertheless there are some concerns on the comparability between the national rules implementing this Directive and the existing fundamental freedoms that are the cornerstone of the European Union This thesis examines the possible infringements of the Directive's transposition to the fundamental freedoms enshrined in the Treaty of the Functioning of the European Union Some recommendations with regard to ameliorating the identified incompatibilities are also given by using comparative legal research Defense White Paper ,2016 The Engineer ,1878

Radio News, 1921 Some issues 1943 July 1948 include separately paged and numbered section called Radio electronic engineering edition called Radionics edition in 1943 *Michigan Dairy Farmer*, 1911 <u>The Country Gentleman</u>, 1905

American Engineer and Railroad Journal ,1899 Public Service ,1911 Public Service Management ,1911

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