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

Question	Scheme	Marks	
3 (a)	(i) C-4=N-6=J-3=R-2 or (ii) O-6=J-3=R-2	MI	
	Change status to give (i) $C = 4 - N = 6 - J = 3 - R = 2$ or (ii) $O = 6 - J = 3 - R = 2$ Improved matching is:	Al	
	(i) 4 5 3 6 2 (ii) 5 3 4 6 2	A1 (3)	
(b)	E.g. Tasks 1 and 5 can only be done by George E.g. Charlie can only do task 4 and Olivia can only do task 6 which means that Nurry can't be allocated a task as Nurry can only do tasks 4 and 6	B2, 1, 0 (2)	
(c)	O-6=N-4=C-5=G-1 or $C-5=G-1Change status to give O=6-N=4-C=5-G=1 or C=5-G=1Maximum matching is: C=5, G=1, J=3, N=4, O=6, R=2$	M1 A1 A1 (3) Total 8 marks	
4 (a)	A path is a (i) finite sequence of edges, such that (ii) the end vertex of one edge in the sequence is the start vertex of the next, and in which (iii) no vertex appears more than once. A 4 13 18 18 18 19 31 29	B2, 1, 0 (2)	
(b)	11 8 11 5 12	M1 A1 (S,A, B, C A1ft (D, F) A1 (E, T)	
	Shortest path: SBADET Length: 40 (miles)	Bi Bift (6)	
(c)	Shortest distance S to F = 29 (miles)	B1ñ (1	
(d)	SADET or SCDET; of length 41 (miles)	B1 B1 (2	
		Total 11 marks	

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Serge Gutwirth, Ronald Leenes, Paul De Hert

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Energy Efficiency Steven Fawkes, 2016-04-29 Energy risk has reappeared on the corporate and social agenda with a bang and the complexity of the issues has increased many fold since the days of the last great wave of concern following the oil crises of the 1970s Steven Fawkes Energy Efficiency is a comprehensive guide for managers and policy makers to the fundamental questions underpinning energy efficiency and our responses to it what do we really mean by energy efficiency what is the potential in different dimensions why it is important what management processes lead to optimisation of energy efficiency what technologies are useful for improving energy efficiency what policies can be used to promote energy efficiency how can energy efficiency be financed how can energy suppliers engage with energy efficiency. The result is the most comprehensive review to date of the barriers and opportunities associated with improving energy efficiency Clearly written and erudite Steven Fawkes addresses every aspect of energy efficiency including the huge and vitally important untapped potential offered by effective energy management and the application of existing technology He also identifies barriers such as the rebound effect and how they can be mitigated and he provides a comprehensive review of innovative energy efficiency financing options This book is a must read for anyone with an interest in energy supply and demand International Financial Statistics, January 2013 International Monetary Fund. Statistics Dept., 2013-01-01 reduction The IMF s principal statistical publication International Financial Statistics IFS Online is the standard source of international statistics on all aspects of international and domestic finance For most countries IFS Online reports data on balance of payments international investment position international liquidity monetary and financial statistics exchange rates interest rates prices production government accounts national accounts and population Updated monthly **Putting Corporate** Parenting into Practice, Second Edition Di Hart, Alison Williams, 2013-06-05 With an emphasis on practical tools and training materials this new edition will support the implementation of corporate parenting across the local authority by focusing on the leadership and commitment that members and officers can provide Research Handbook on International Energy Law Kim Talus, 2014-04-25 International energy law is an elusive but important concept There is no body of law called international energy law nor is there any universally accepted definition for it yet many specialised areas of international law have a direct relationship All Previous Year Question Papers for the UPPSC. Download Now! Testbook, 2023-03-27 Cover all major topics using this UPPSC PYP E Book with questions mentioned in the syllabus to help prepare for the upcoming exam Kick start your exam preparation by solving these PYP pdfs here The Teaching and Learning of Social Research Methods Melanie Nind, Daniel Kilburn, Rebekah Luff, 2018-03-08 The importance of the teaching and learning of social research methods is increasingly recognised by research councils and policy bodies as crucial to the drive to increase capacity amongst the research community. The need for greater scholarly engagement with how research methods are taught and learnt is also driven by the realisation that epistemological and methodological developments have not been

accompanied by a pedagogical literature or culture Training initiatives need this pedagogic input if they are to realise the educational aspirations for methodologically skilled and competent researchers able to apply adapt and reflect on a range of high level research methods and approaches The contributors to this collection have fully engaged with this need to develop and share pedagogical knowledge in relation to the teaching of research methods Together they span qualitative quantitative and mixed methods a range of disciplinary and national contexts and face to face and blended teaching and learning Through detailed examples the collection addresses how best teaching practices develop in response to distinctive challenges that will resonate with readers in so doing it will inspire and inform their own development This book was originally published as a special issue of the International Journal of Social Research Methodology Uppsc Up Combined State/Upper Subordinate Services General Studies (Paper-1) Preliminary Examination | Solved Papers 2023-2005 Dr. Ranjit Kumar Singh, IAS (AIR-49),2023-10-01 Prepare for success in the UPPSC UP Combined State Upper Subordinate Services Preliminary Examination with Dr Ranjit Kumar Singh's comprehensive guide UPPSC UP Combined State Upper Subordinate Services General Studies Paper 1 Preliminary Examination Solved Papers 2023 2005 Gain invaluable insights and strategies from an accomplished IAS officer AIR 49 to ace your exam with confidence Inside this meticulously curated resource you ll find a treasure trove of solved papers spanning from 2005 to 2023 providing you with a thorough understanding of the exam pattern and question trends Dr Singh's expert analysis and explanations ensure that you grasp key concepts and master exam techniques effectively Whether you re a seasoned aspirant or just beginning your journey towards a prestigious government career this book serves as your trusted companion in your guest for success Dr Singh's insider perspective and proven strategies offer you a competitive edge helping you navigate the complexities of the exam with ease With its focus on General Studies Paper 1 this book covers a wide range of topics including Indian Polity Economy History Geography Science and Technology Environment and Current Affairs Dr Singh's lucid explanations and solved examples empower you to tackle even the most challenging questions with confidence As you immerse yourself in the solved papers and accompanying explanations you ll build both knowledge and exam taking skills essential for success Dr Singh s dedication to your success shines through in every page making this book an indispensable resource for aspirants striving to excel in the UPPSC UP Combined State Upper Subordinate Services Examination Don t leave your success to chance Arm yourself with the proven strategies and insights of UPPSC UP Combined State Upper Subordinate Services General Studies Paper 1 Preliminary Examination Solved Papers 2023 2005 Let Dr Ranjit Kumar Singh's expertise guide you towards your goal of acing the exam and securing a bright future in public service Grab your copy now and embark on the path to success Independent Commission on Banking Final Report Great Britain: Parliament: House of Commons: Treasury Committee, 2012-11-12 Incorporating HC 1534 session 2010 12 Maritime Wideband Communication Networks Tingting Yang, Xuemin (Sherman) Shen, 2014-06-17 This Springer Brief covers emerging maritime wideband communication networks and how they facilitate

applications such as maritime distress urgency safety and general communications It provides valuable insight on the data transmission scheduling and protocol design for the maritime wideband network This brief begins with an introduction to maritime wideband communication networks including the architecture framework operations and a comprehensive survey on current developments The second part of the brief presents the resource allocation and scheduling for video packet transmission with a goal of maximizing the weights of uploaded video packets Finally an energy and content aware scheduling scheme is proposed for the most efficient vessel packet throughput Based on the real ship route traces obtained from the navigation software BLM Ship simulation results demonstrate the viability of the proposed schemes Conclusions and further research directions are discussed Maritime Wideband Communication Networks Video Transmission Scheduling is a valuable tool for researchers and professionals working in wireless communications and networks Advanced level students studying computer science and electrical engineering will also find the content valuable Banks, Exchanges, and **Regulators** Ranald C. Michie, 2020-11-26 Never have financial markets been subjected to a period of change as rapid and extensive as took place from the 1970s onwards In the 1970s global financial markets were controlled by governments compartmentalized along national boundaries and segregated according to the particular activities they engaged in This all disintegrated in the decades that followed under the pressure of market forces global integration and a revolution in the technology of trading One product of this transformation was the Global Financial Crisis of 2008 which exposed the fragility of the new structures created and cast a long shadow that we still live in today The response to that crisis has shaped the global financial system which has been tested once again by the coronavirus pandemic However none of the outcomes of this transformation were inevitable despite the forces at work They were the product of decisions taken at the time for a multitude of reasons Banks exchanges and regulators were faced with unprecedented challenges and opportunities as a revolution swept away traditional ways of conducting banking the methods used to trade in financial markets and the rules and regulations employed to enforce discipline In this book Ranald C Michie provides an authoritative and unrivalled account of this upheaval based on a careful and exhaustive reading of the Financial Times over the last four decades using it to provide a source of material unmatched by any other in terms of depth and coverage By studying what happened and why in real time it is possible to explain the decisions taken that shaped the course of the transformation and its repercussions

Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,1913 Contains the 4th session of the 28th Parliament through the session of the Parliament Law and Time Sian Beynon-Jones, Emily Grabham, 2018-09-21 Research on laws relationship with time has flourished over the past decade This edited collection aims to put law and time scholarship into wider context advancing conversations on time and temporalities between sociolegal scholars anthropologists sociologists geographers and historians Through a diverse range of contributions the collection explores how legal modalities of time emerge and have effects within wider clusters of social and political action Themes include laws

diverse roles in maintaining linear historicist models of time law s participation in the materialisation of times and the unsteady effects of temporal pluralism and polytemporalities in law De naturalising the time in law and time scholarship this collection positions time as something that can be enacted and materialised as well as experienced with distinct implications for questions of social justice The Introduction and Chapter 6 of this book are freely available as downloadable Open Access PDFs at http www taylorfrancis com under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 Corporate Governance and Investment Management Roger M. Barker, Iris H.-Y. Chiu, 2017-12-29 Shareholder engagement with publicly listed companies is often seen as a key means to monitor corporate malpractices In this book the authors examine the corporate governance roles of key institutional investors in UK corporate equity including pension funds insurance companies collective investment funds hedge and private equity funds and sovereign wealth funds They argue that institutions corporate governance roles are an instrument ultimately shaped by private interests and market forces as well as law and regulatory obligations and that policy makers should not readily make assumptions regarding their effectiveness or their alignment with public interest or social good **All That Is Solid** Danny Dorling, 2014-02-19 Housing was at the heart of the financial collapse and our economy is now precariously reliant on the housing market In this groundbreaking new book Danny Dorling argues that housing is the defining issue of our times Tracing how we got to our current crisis and how housing has come to reflect class and wealth in Britain All That Is Solid radically shows that the solution to our problems rising homelessness a generation priced out of home ownership is not as is widely assumed building more homes Inequality he argues is what we really need to overcome **REACH Beyond Borders** Ondřej Filipec, 2017-08-23 This book discusses how much other countries reflect the EU chemical regulation REACH Registration Evaluation Authorization Restriction of Chemicals in the context of Europeanization theory The main hypothesis verified in this book is that more trade with the EU means more Europeanization as the non EU companies exporting to the EU have an obligation to comply with EU rules according to the No data No Market REACH provision This book further points out that non EU companies voluntarily adopt EU standards while this change has yet to be reflected on the policy level in non EU countries mainly for economic reasons Exploring changes in national chemical regulatory policies among top chemical producers around the World brings new ideas into the process of Europeanization behind EU borders and provides useful material for academia regulatory experts and export oriented chemical industry The Agua Group Guide to **Procurement, Tendering and Contract Administration** Mark Hackett, Gary Statham, 2017-05-02 This key text for the building team is an authoritative guide and gives a detailed account of the team's roles and responsibilities with best industry practice required to ensure that building projects meet clients expectations on time cost and quality The second edition of The Agua Group Guide to Procurement Tendering and Contract Administration has been edited enlarged and updated by a high profile author team with unparalleled experience of both private and public sectors as well as of teaching on QS courses

It covers the entire building process from inception to final account and throughout the emphasis is on current best practice This edition has new material on the CDM regulations JCT contracts the RIBA Plan of Work the RICS New Rules of Measurement BIM and Sustainability as well as a general update for industry changes especially on procurement internationalisation and PFI With clear and thorough explanations you are taken through self contained chapters covering the detail of the briefing stage procurement methods tendering procedures and contract administration The period from starting a college course to successful completion of professional examinations represents a long and steep learning curve The range of skills and the knowledge required to perform work efficiently and effectively might at first seem rather daunting Although designed as an introductory textbook for undergraduates in construction architecture and quantity surveying The Agua Group Guide offers an excellent overview of contract administration and will provide you with sufficient understanding to hold you in good stead for your early years in professional practice **Climate Change** Mark Maslin, 2014 In the new edition of Climate Change A Very Short Introduction previously titled Global Warming Mark Maslin explores all of the key debates Examining the most recent scientific research he looks what climate change is its impact on our planet and why it s such a complex problem to solve Data Protection on the Move Serge Gutwirth, Ronald Leenes, Paul De Hert, 2016-01-09 This volume brings together papers that offer methodologies conceptual analyses highlight issues propose solutions and discuss practices regarding privacy and data protection It is one of the results of the eight annual International Conference on Computers Privacy and Data Protection CPDP 2015 held in Brussels in January 2015 The book explores core concepts rights and values in upcoming data protection regulation and their in adequacy in view of developments such as Big and Open Data including the right to be forgotten metadata and anonymity It discusses privacy promoting methods and tools such as a formal systems modeling methodology privacy by design in various forms robotics anonymous payment the opportunities and burdens of privacy self management the differentiating role privacy can play in innovation The book also discusses EU policies with respect to Big and Open Data and provides advice to policy makers regarding these topics Also attention is being paid to regulation and its effects for instance in case of the so called EU cookie law and groundbreaking cases such as Europe v Facebook This interdisciplinary book was written during what may turn out to be the final stages of the process of the fundamental revision of the current EU data protection law by the Data Protection Package proposed by the European Commission It discusses open issues and daring and prospective approaches It will serve as an insightful resource for readers with an interest in privacy and data protection

A Revised Consent Model for the Transplantation of <u>Face and Upper Limbs: Covenant Consent</u> James L. Benedict, 2017-04-25 This book supports the emerging field of vascularized composite allotransplantation VCA for face and upper limb transplants by providing a revised ethically appropriate consent model which takes into account what is actually required of facial and upper extremity transplant recipients In place of consent as permission giving waiver or autonomous authorization the standard approaches this book

imagines consent as an ongoing mutual commitment i e as covenant consent The covenant consent model highlights the need for a durable personal relationship between the patient subject and the care provider researcher Such a relationship is crucial given the recovery period of 5 years or more for VCA recipients The case for covenant consent is made by first examining the field of vascularized composite allotransplantation the history and present understandings of consent in health care and the history and use of the covenant concept from its origins through its applications to health care ethics today This book explains how standard approaches to consent are inadequate in light of the particular features of facial and upper limb transplantation In contrast use of the covenant concept creates a consent model that is more appropriate ethically for these very complex surgeries and long term recoveries **Law and Corporate Behaviour** Christopher Hodges, 2015-10-22 This book examines the theories and practice of how to control corporate behaviour through legal techniques The principal theories examined are deterrence economic rational acting responsive regulation and the findings of behavioural psychology Leading examples of the various approaches are given in order to illustrate the models private enforcement of law through litigation in the USA public enforcement of competition law by the European Commission and the recent reform of policies on public enforcement of regulatory law in the United Kingdom Noting that behavioural psychology has as yet had only limited application in legal and regulatory theory the book then analyses various European regulatory structures where behavioural techniques can be seen or could be applied Sectors examined include financial services civil aviation pharmaceuticals and workplace health safety Key findings are that enforcement has to focus on identifying the causes of non compliance so as to be able to support improved performance rather than be based on fear motivating complete compliance Systems in which reporting is essential for safety only function with a no blame culture The book concludes by proposing an holistic model for maximising compliance within large organisations combining public regulatory and criminal controls with internal corporate systems and external influences by stakeholders held together by a unified core of ethical principles Hence the book proposes a new theory of ethical regulation This title is included in Bloomsbury Professional's International Arbitration online service

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