Page 5			Mark Scheme	Syllabus	Paper
			IGCSE - May/June 2013	0625	31
(a)	(i) 1. (loss of P.E. =) mgh OR 92 × 10 × 1500 1.38 × 10 ⁶ J correct use of mgh with h = 500 or 2000 gains 1 mark only				
	(i-i)		(K.E. =) ½ mv² OR ½ × 92 × 52² 1.244 × 10° J at least 2 sig. figs		
(a)	(i-i)	 (ii) difference is due to: (work done in overcoming) air resistance/drag OR energy converted to/lost as heat (by air resistance/drag) 			
(b)	(i)	incre	eases		
	(0.1)	920	N		
					[Total
(a)	(1)		tion of vacuum OR glass is a poor conductor vacuum/gap between walls has no molecules/	atoms/particles	
	(iii)		ace/silver (of walls) is good reflector/poor abso ace/silver (of walls) is poor emitter (of radiation		
(b)	add a stopper/lid/bung/cover/top to reduce/prevent (loss of heat by) convection/ conduction/radiation/evaporation OR to prevent steam/hot vapour leaving		,		
		made of insulator OR example of insulator to reduce/prevent (loss of heat by) convection/radiation/evaporation OR to prevent steam/hot air leaving			lTota
					(10ta
(a)	(i) and (ii) marked together to maximum of 3 marks (i) molecules escape/leave the liquid/form gas or vapour				
	(H)	fact(poration OR heat/(thermal) energy needed for (er) molecules/high(er) energy molecules esca		at cooler
			slow(er) molecules left behind t flows from body to warm the sweat (so body or	cools)	
(b)	(1)		*) mc4@ OR mc7 OR 60 × 4000 × 0.50 × 10 ⁵ J / 120 kJ		
	(i-i)		mL in any form OR (m =) Q/L OR either with n = $1.2 \times 10^5 / 2.4 \times 10^6 =$) 0.05 kg e.c.f from (b)(

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Yuyu Yuan,Xu Wu,Yueming Lu

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Philosophical Foundations of Fiduciary Law Andrew S. Gold, Paul B. Miller, 2014-08-14 Fiduciary law is a critically important body of law Fiduciary duties ensure the integrity of a remarkable variety of relationships institutions and organizations. They apply to relationships of great personal significance including in some jurisdictions the relationship. between parents and children They structure a wide variety of commercial relationships and they are essential to the regulation of relationships between professional service providers and their clients including relationships between lawyer and client doctor and patient and investment manager and client Fiduciary duties perhaps uniquely in private law challenge traditional ways of marking the boundaries between private and public law inasmuch as they figure prominently in public governance Indeed there is even a storied tradition of thinking of the authority of the state in fiduciary terms Notwithstanding its importance fiduciary law has been woefully under analysed by legal theorists Filling this gap with a series of chapters by leading theorists this book includes chapters on the nature of fiduciary relationships the connection between fiduciary duties and morality the content and significance of fiduciary loyalty the economic significance of fiduciary law the application of fiduciary principles to public law and international law the import of fiduciary relationships to theories of authority and various other fundamental topics in the field In many cases new and important questions are raised by the book s chapters Indeed this book not only offers a much needed theoretical assessment of fiduciary topics it defines the field going forward setting an agenda for future philosophical study of fiduciary law Croatia at the Crossroads: A consideration of archaeological and historical connectivity David Davison, Vincent Gaffney, Preston Miracle, 2017-01-26 Papers focus on Croatia's particular interconnectedness in terms of social and cultural relationships with the wider region as the starting point for exploring issues across a broad chronological range from human origins to modernity Pattern Recognition and Image Analysis Joao Miguel Sanches, Luisa Micó, Jaime Cardoso, 2013-05-23 This book constitutes the refereed proceedings of the 6th Iberian Conference on Pattern Recognition and Image Analysis IbPRIA 2013 held in Funchal Madeira Portugal in June 2013 The 105 papers 37 oral and 68 poster ones presented were carefully reviewed and selected from 181 submissions The papers are organized in topical sections on computer vision pattern recognition image and signal The Art of the Con Anthony M. Amore, 2015-07-14 Must reading for any true crime fan a diverse colorful applications crew of art gallery grifters and scammers Highly recommended Howie Carr New York Times bestselling author Art scams are today so numerous that the specter of a lawsuit arising from a mistaken attribution has scared a number of experts away from the business of authentication and forgery and with good reason Art scams are increasingly convincing and involve incredible sums of money The cons perpetrated by unscrupulous art dealers and their accomplices are proportionately elaborate Anthony M Amore's The Art of the Con tells the stories of some of history's most notorious yet untold cons They involve stolen art hidden for decades elaborate ruses that involve the Nazis and allegedly plundered art the theft of a

conceptual prototype from a well known artist by his assistant to be used later to create copies the use of online and television auction sites to scam buyers out of millions and other confidence scams incredible not only for their boldness but more so because they actually worked Using interviews and newly released court documents The Art of the Con will also take the reader into the investigations that led to the capture of the con men who oftentimes return back to the world of crime For some it s an irresistible urge because their innocent dupes all share something in common they want to believe An engrossing read about brazen artful scams Kirkus Reviews A riveting fast moving account of shameless fraudsters who wreak havoc on the art world A must read Brian T Kelly former Assistant United States Attorney Applied Cryptography and Network Security Mark Manulis, Ahmad-Reza Sadeghi, Steve Schneider, 2016-06-09 This book constitutes the refereed proceedings of the 14th International Conference on Applied Cryptography and Network Security ACNS 2016 held in Guildford UK in June 2016 5 The 35 revised full papers included in this volume and presented together with 2 invited talks were carefully reviewed and selected from 183 submissions ACNS is an annual conference focusing on innovative research and current developments that advance the areas of applied cryptography cyber security and privacy Applied Artificial Intelligence Moonis Ali, Tibor Bosse, Koen V. Hindriks, Mark Hoogendoorn, Catholijn M. Jonker, Jan Treur, 2013-05-20 This volume constitutes the thoroughly refereed conference proceedings of the 26th International Conference on Industrial Engineering and Other Applications of Applied Intelligence Systems IEA AIE 2013 held in Amsterdam The Netherlands in June 2013 The total of 71 papers selected for the proceedings were carefully reviewed and selected from 185 submissions. The papers focus on the following topics auctions and negotiation cognitive modeling crowd behavior modeling distributed systems and networks evolutionary algorithms knowledge representation and reasoning pattern recognition planning problem solving robotics text mining advances in recommender systems business process intelligence decision support for safety related systems innovations in intelligent computation and applications intelligent image and signal processing and machine learning methods applied to manufacturing processes and production systems

International Encyclopedia of Public Health William C Cockerham, 2016-10-06 International Encyclopedia of Public Health Second Edition Seven Volume Set is an authoritative and comprehensive guide to the major issues challenges methods and approaches of global public health Taking a multidisciplinary approach this new edition combines complementary scientific fields of inquiry linking biomedical research with the social and life sciences to address the three major themes of public health research disease health processes and disciplines This book helps readers solve real world problems in global and local health through a multidisciplinary and comprehensive approach Covering all dimensions of the field from the details of specific diseases to the organization of social insurance agencies the articles included cover the fundamental research areas of health promotion economics and epidemiology as well as specific diseases such as cancer cardiovascular diseases diabetes and reproductive health Additional articles on the history of public health global issues

research priorities and health and human rights make this work an indispensable resource for students health researchers and practitioners alike Provides the most comprehensive high level internationally focused reference work available on public health Presents an invaluable resource for both researchers familiar with the field and non experts requiring easy to find relevant global information and a greater understanding of the wider issues Contains interdisciplinary coverage across all aspects of public health Incorporates biomedical and health social science issues and perspectives Includes an international focus with contributions from global domain experts providing a complete picture of public health issues **African People** Russell Rickford, 2016-01-14 During the height of the Black Power movement of the late 1960s and 1970s dozens of Pan African nationalist private schools from preschools to post secondary ventures appeared in urban settings across the United States The small independent enterprises were often accused of teaching hate and were routinely harassed by authorities Yet these institutions served as critical mechanisms for transmitting black consciousness Founded by activist intellectuals and other radicalized veterans of the civil rights movement the schools strove not simply to bolster the academic skills and self esteem of inner city African American youth but also to decolonize minds and foster a vigorous and regenerative sense of African identity In We Are An African People historian Russell Rickford traces the intellectual lives of these autonomous black institutions established dedicated to pursuing the self determination that the integrationist civil rights movement had failed to provide Influenced by Third World theorists and anticolonial campaigns organizers of the schools saw formal education as a means of creating a vanguard of young activists devoted to the struggle for black political sovereignty throughout the world Most of the institutions were short lived and they offered only modest numbers of children a genuine alternative to substandard inner city public schools Yet their stories reveal much about Pan Africanism as a social and intellectual movement and as a key part of an indigenous black nationalism Rickford uses this largely forgotten movement to explore a particularly fertile period of political cultural and social revitalization that strove to revolutionize African American life and envision an alternate society Reframing the post civil rights era as a period of innovative organizing he depicts the prelude to the modern Afrocentric movement and contributes to the ongoing conversation about urban educational reform race and identity Trustworthy Computing and Services Yuyu Yuan, Xu Wu, Yueming Lu, 2013-01-05 This book constitutes the refereed proceedings of the International Standard Conference on Trustworthy Distributed Computing and Services ISCTCS 2012 held in Beijing China in May June 2012 The 92 revised full papers presented were carefully reviewed and selected from 278 papers The topics covered are architecture for trusted computing systems trusted computing platform trusted systems build network and protocol security mobile network security network survivability and other critical theories and standard systems credible assessment credible measurement and metrics trusted systems trusted networks trusted mobile network trusted routing trusted software trusted operating systems trusted storage fault tolerant computing and other key technologies trusted e commerce and e government trusted logistics trusted internet

of things trusted cloud and other trusted services and applications Massively Parallel Processing Applications and Development L. Dekker, W. Smit, J.C. Zuidervaart, 2013-10-22 The contributions of a diverse selection of international hardware and software specialists are assimilated in this book s exploration of the development of massively parallel processing MPP The emphasis is placed on industrial applications and collaboration with users and suppliers from within the industrial community consolidates the scope of the publication From a practical point of view massively parallel data processing is a vital step to further innovation in all areas where large amounts of data must be processed in parallel or in a distributed manner e g fluid dynamics meteorology seismics molecular engineering image processing parallel data base processing MPP technology can make the speed of computation higher and substantially reduce the computational costs However to achieve these features the MPP software has to be developed further to create user friendly programming systems and to become transparent for present day computer software Application of novel electro optic components and devices is continuing and will be a key for much more general and powerful architectures Vanishing of communication hardware limitations will result in the elimination of programming bottlenecks in parallel data processing Standardization of the functional characteristics of a programming model of massively parallel computers will become established Then efficient programming environments can be developed. The result will be a widespread use of massively parallel processing systems in Advances in many areas of application The New York Daily Tribune Index ,1895 Los Angeles Times ,1974 **Computer Vision and Information Technology**, 2013-12-30 The latest trends in information technology represent a new intellectual paradigm for scientific exploration and the visualization of scientific phenomena This title covers the emerging technologies in the field Academics engineers industrialists scientists and researchers engaged in teaching and research and development of computer science and information technology will find the book useful for their academic and research work

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