

Monday 10 June 2024 – Afternoon

A Level Computer Science

H446/01 Computer Systems

Time allowed: 2 hours 30 minutes

You can use:

- an HB pencil

Do not use:

- a calculator



Please write clearly in black ink. Do not write in the barcodes.

Centre number

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Candidate number

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First name(s)

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Last name

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INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.
- Answer **all** the questions.

INFORMATION

- The total mark for this paper is **140**.
- The marks for each question are shown in brackets [].
- Quality of extended response will be assessed in questions marked with an asterisk (*).
- This document has **28** pages.

ADVICE

- Read each question carefully before you start your answer.

Ocr 2013 Stats 1 Mark Scheme May

U. S. Government Printing Office

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the U.S. Government Printing Office text.

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International Financial Statistics, May 2013 International Monetary Fund. Statistics Dept.,2013-05-30 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 *International Financial Statistics, June 2013* International Monetary Fund. Statistics Dept.,2013-05-31 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 International Financial Statistics, January 2013 International Monetary Fund. Statistics Dept.,2013-01-02 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

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Rochelle Llewelyn Nicholls,2014-10-01 A gentleman when the game was hard bitten played by rough and ready lads out to win whatever the cost Australia had few sporting heroes in the years preceding its federation in 1901 But before its 20th century Olympic trailblazers and Depression era icons such as Phar Lap and Don Bradman came an Australian sporting pioneer who was celebrated on the most glamorous stage in the world American major league baseball Joe Quinn s story has long been lost in the land of his birth This tale gallops from the deprivation of famine ravaged Ireland through colonial Australia to the raucous ballfields of 19th century America with their unruly players and owners brawls and adulation and backroom betrayals Through 17 seasons in the major leagues Undertaker Joe Quinn earned his place among the colorful characters who pioneered the modern game of baseball as much for his ability to stand apart from their bad behavior as for his steadfastness on the field Meet Australia s first professional baseball player and manager whose willingness to have a go in the grand Australian tradition will live long in the minds of sports fans on both sides of the Pacific **Encyclopedia of**

Transportation Mark Garrett,2014-08-13 Viewing transportation through the lens of current social economic and policy aspects this four volume reference work explores the topic of transportation across multiple disciplines within the social sciences and related areas including geography public policy business and economics The book s articles all written by experts in the field seek to answer such questions as What has been the legacy not just economically but politically and socially as well of President Eisenhower s modern interstate highway system in America With that system and the infrastructure that supports it now in a state of decline and decay what s the best path for the future at a time of enormous

fiscal constraints Should California politicians plunge ahead with plans for a high speed rail that every expert says despite the allure will go largely unused and will never pay back the massive investment while at this very moment potholes go unfilled all across the state What path is best for emerging countries to keep pace with dramatic economic growth for their part What are the social and financial costs of gridlock in our cities Features Approximately 675 signed articles authored by prominent scholars are arranged in A to Z fashion and conclude with Further Readings and cross references A Chronology helps readers put individual events into historical context a Reader s Guide organizes entries by broad topical or thematic areas a detailed index helps users quickly locate entries of most immediate interest and a Resource Guide provides a list of journals books and associations and their websites While articles were written to avoid jargon as much as possible a Glossary provides quick definitions of technical terms To ensure full well rounded coverage of the field the General Editor with expertise in urban planning public policy and the environment worked alongside a Consulting Editor with a background in Civil Engineering The index Reader s Guide and cross references combine for thorough search and browse capabilities in the electronic edition Available in both print and electronic formats Encyclopedia of Transportation is an ideal reference for libraries and those who want to explore the issues that surround transportation in the United States and around the world

China's Urban Revolution Austin Williams, 2017-10-19 By 2025 China will have built fifteen new supercities each with 25 million inhabitants It will have created 250 Eco cities as well clean green car free people friendly high tech urban centres From the edge of an impending eco catastrophe we are arguably witnessing history s greatest environmental turnaround an urban experiment that may provide valuable lessons for cities worldwide Whether or not we choose to believe the hype there is little doubt that this is an experiment that needs unpicking understanding and learning from Austin Williams The Architectural Review s China correspondent explores the progress and perils of China s vast eco city program describing the complexities which emerge in the race to balance the environment with industrialisation quality with quantity and the liberty of the individual with the authority of the Chinese state Lifting the lid on the economic and social realities of the Chinese blueprint for eco modernisation Williams tells the story of China s rise and reveals the pragmatic political and economic motives that lurk behind the successes and failures of its eco cities Will these new kinds of urban developments be good humane healthy places Can China find a third way in which humanity nature economic growth and sustainability are reconciled And what lessons can we learn for our own vision of the urban future This is a timely and readable account which explores a range of themes environmental political cultural and architectural to show how the eco city program sheds fascinating light on contemporary Chinese society and provides a lens through which to view the politics of sustainability closer to home **Minerals Yearbook ,2013 Minerals Yearbook, 2013, Area Reports: International, Asia and the Pacific** U. S. Government Printing Office, 2017-02-15 This edition of the U S Geological Survey USGS Minerals Yearbook discusses the performance of the worldwide minerals and materials industries during year 2013 and provides background

information to assist in interpreting that performance These annual reviews are designed to provide timely statistical data on mineral commodities in various countries This volume covers data from Asia and the Pacific Each report includes sections on government policies and programs environmental issues trade and production data industry structure and ownership commodity sector developments infrastructure and a summary outlook Audience Government employees and contractors as well as businesses and employees all working in mineral related trades especially with interests in statistics about mineral commodities overseas will find this resource invaluable Check out our Minerals Metals publications here <https://bookstore.gpo.gov/catalog/science/technology/minerals/metals> Other print volumes in the Minerals Yearbook series are available here https://bookstore.gpo.gov/catalog/science/technology/minerals/metals/minerals_yearbook **Them and Us** Philippe Legrain, 2020-10-15 Winner of the Diversity Inclusion and Equality Award at the Business Book Awards 2021 Underpinned by scholarship entertaining Legrain's book fizzles with practical ideas The Economist The beauty of diversity is that innovation often comes about by serendipity As Scott Page observed one day in 1904 at the World Fair in St Louis the ice cream vendor ran out of cups Ernest Hami a Syrian waffle vendor in the booth next door rolled up some waffles to make cones and the rest is history Filled with data anecdotes and optimism Them and Us is an endorsement of cultural differences at a time of acute national introspection By every measure from productivity to new perspectives immigrants bring something beneficial to society If patriotism means wanting the best for your country we should be welcoming immigrants with open arms

Minerals Yearbook Mines Bureau, Geological Survey, Interior Department, 2017-02-15 Area Reports International These annual reviews are designed to provide timely statistical data on mineral commodities in various countries Each report includes sections on government policies and programs environmental issues trade and production data industry structure and ownership commodity sector developments infrastructure and a summary outlook Audience International minerals brokers minerals buyers construction industry chemical industry commodities brokers commodities transportation carriers financial services executives financial brokers commodities exchange members geologists **Austerity Bites 10 Years On** Mary O'Hara, 2024-09-17 Austerity has proven deadly Over the last decade the damage caused by austerity measures in the UK has had a long lasting and profound effect on many lives The first edition of Austerity Bites offered on the ground reportage of one of the most significantly regressive economic strategies of any post war government Over a year Mary O'Hara toured the UK to gauge the immediate impact and expectations of people affected and found many clinging to the hope that austerity cuts would not last long as the damage became increasingly apparent Alas this was not how things unfolded Instead much of the Welfare State had its vital support systems systematically undermined The public sector including the NHS is now on its knees Schools are buckling under multiple structural and budgetary pressures Councils even big ones are going broke Homelessness is rampant While Brexit the pandemic and war have no doubt impacted the economic health of the country previous austerity cuts left the UK less prepared to weather such extraordinary events With new commentary

Austerity Bites 10 Years On assesses on the true scale of the damage these policies have inflicted on the country's most vulnerable groups public institutions and on the wider society It reflects on where we have been where we are now and what needs to happen next to undo the damage and avoid the same mistakes again **Handbook of Statistics on Indian Economy**, 2004 **Crime Dot Com** Geoff White, 2020-09-12 From Anonymous to the Dark Web a dizzying account of hacking past present and future Brilliantly researched and written Jon Snow Channel 4 News A comprehensive and intelligible account of the elusive world of hacking and cybercrime over the last two decades Lively insightful and often alarming Ewen MacAskill Guardian On May 4 2000 an email that read kindly check the attached LOVELETTER was sent from a computer in the Philippines Attached was a virus the Love Bug and within days it had been circulated across the globe paralyzing banks broadcasters and businesses in its wake and extending as far as the UK Parliament and reportedly the Pentagon The outbreak presaged a new era of online mayhem the age of Crime Dot Com In this book investigative journalist Geoff White charts the astonishing development of hacking from its conception in the United States hippy tech community in the 1970s through its childhood among the ruins of the Eastern Bloc to its coming of age as one of the most dangerous and pervasive threats to our connected world He takes us inside the workings of real life cybercrimes drawing on interviews with those behind the most devastating hacks and revealing how the tactics employed by high tech crooks to make millions are being harnessed by nation states to target voters cripple power networks and even prepare for cyber war From Anonymous to the Dark Web Ashley Madison to election rigging Crime Dot Com is a thrilling dizzying and terrifying account of hacking past and present what the future has in store and how we might protect ourselves from it The Facebook Narcissist Lena Derhally, 2022-05-31 A comprehensive guide for understanding how narcissism on social media impacts our mental health how to protect ourselves and our children from those affects as well as from narcissists and how to use social media more mindfully The Facebook Narcissist is the first book dedicated to exploring the relationship between narcissism and social media Lena Derhally a licensed psychotherapist certified in Imago therapy delves into how social media enhances individual and cultural narcissism and how it may create or exacerbate toxic narcissistic tendencies in people who use it Using her clinical expertise along with scientific research and interviews with other experts in the field she thoroughly examines how narcissism on social media contributes to false narratives and ruptures relationships how to identify a narcissist on social media including how to spot the more subtle sub types of narcissist such as the covert communal and collective narcissist how narcissism relates to the influencer and celebrity culture narcissism and cyberbullying cyberstalking trolling and victim blaming on social media narcissism related to racism and politics on social media the ways social media can create a problem of narcissism in children as they grow up the implications of sharenting and more Readers will discover case studies and real examples of narcissists and how they present on social media Derhally's expertise in cultivating healthy fulfilling and connected relationships helps guide readers to take a deeper look at their behaviors on social media and of those around

them At the end of each chapter she gives practical tips and takeaways for navigating narcissism online Since abandoning our devices is impractical and not likely this book will help readers understand how to use social media in a balanced way that inspires fulfillment and connection instead of the entitlement attention seeking and lack of empathy that is at the heart of narcissism Derhally also instructs readers on how they may use social media for good and as a tool for positive social change Social media is here to stay but with education and awareness on how it makes us and the world more narcissistic we can change the narrative and focus on the ways in which social media can be positive and even improve the world for the better

Ocr 2013 Stats 1 Mark Scheme May Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Ocr 2013 Stats 1 Mark Scheme May**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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