

# Monday 10 June 2024 – Afternoon

# A Level Computer Science

H446/01 Computer Systems

Time allowed: 2 hours 30 minutes

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#### INSTRUCTIONS

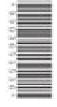
- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.
- Answer all the questions.

#### 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.



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International Monetary Fund. Statistics Dept.

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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 International Financial Statistics, April 2013 International Monetary Fund. Statistics Dept., 2013-03-28 The IMF monthly 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. October 2013 International Monetary Fund. Statistics Dept., 2013-09-30 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 Yearbook, 2013 International Monetary Fund. Statistics Dept., 2013-08-13 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, September 2013 International Monetary Fund.

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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 **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 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 fizzes 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 chemcal industry commodities brokers commodities transportation carriers finacial 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 Has the Luck Run Out? David Fagan, 2019-02-26 Why are Australians anxious and pessimistic Who or what has caused our loss of trust in Australia Why has a feeling of powerlessness crept in for so many Has the luck really run out for the lucky country And what can we do to get it back Every generation believes its forebears have messed up the planet That s how we evolve But the mood in Australia at the moment for all ages seems one of gloom People are angry Distrustful And not just because we are losing Prime Ministers faster than we are losing wickets Sport business education banking farming religion trade unions charities and hospitals have all lost their way through a series of scandals that we must learn from And disillusion with our leaders is at its peak Policy has been replaced by politicking Commentator author and former newspaper editor David Fagan asks the questions we all want answered as he traces the not so gentle decline of important Australian institutions Through analysis and interviews with experts he explores what has defined Australia in the past and how we want to be defined in the future Peeling back the rot that has contaminated almost everything Australians believe in he asks are we still the economically socially and culturally strong country that most aspire to Should we be alarmed Or has the laconic Australian drifted from believing she ll be right to being a bloody knocker Has the Luck Run Out shines a spotlight on the mistakes we have made our national disillusion and looks to what can be done to re set the mood of the times And more importantly what we have to do to set things right 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

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