

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Candidate
name

Candidate
number

Candidate
number

MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 45 minutes

You must answer on the question paper.

For use with: Calculator (recommended)

Solved

INSTRUCTIONS

- Answer all questions.
- Use a pencil in this test paper. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answers to each question in the spaces provided.
- Do not use an erasable pen or correction fluid.
- Do not write on any bar codes.
- You should use a calculator where appropriate.

1. Solve each of the equations in Question 1, giving a full algebraic solution.

1(a) Solve the equation $2x^2 - 5x + 2 = 0$.
 $2x^2 - 5x + 2 = 0$
 $(2x - 1)(x - 2) = 0$
 $2x - 1 = 0$ or $x - 2 = 0$
 $x = \frac{1}{2}$ or $x = 2$
Answer: $x = \frac{1}{2}$ or $x = 2$ (2 marks)

1(b) Solve the equation $3x^2 - 10x + 3 = 0$.

Answer: $x = \frac{1}{3}$ or $x = 3$ (2 marks)

2. The diagram shows three triangles, A, B and C.



2(a) Prove that the angles x and y are alternate angles.

Answer: (2 marks)

2(b) Find the value of x and y .

Answer: $x = 30^\circ$ and $y = 60^\circ$ (2 marks)

3. The table shows the number of books sold in a school.

	Books sold	Number of books
Books sold	1, 2, 3, 4, 5	10, 15, 20, 25, 30
Number of books	1, 2, 3, 4, 5	10, 15, 20, 25, 30

3(a) Find the mean number of books sold.

Mean = $\frac{1 \times 10 + 2 \times 15 + 3 \times 20 + 4 \times 25 + 5 \times 30}{10 + 15 + 20 + 25 + 30}$
 $= \frac{10 + 30 + 60 + 100 + 150}{100}$
 $= \frac{350}{100}$
 $= 3.5$
Answer: 3.5 (2 marks)

3(b) Find the standard deviation.

Standard deviation = $\sqrt{\frac{1 \times 10 + 2^2 \times 15 + 3^2 \times 20 + 4^2 \times 25 + 5^2 \times 30}{100} - 3.5^2}$
 $= \sqrt{\frac{10 + 60 + 120 + 400 + 750}{100} - 12.25}$
 $= \sqrt{\frac{1340}{100} - 12.25}$
 $= \sqrt{13.4 - 12.25}$
 $= \sqrt{1.15}$
 ≈ 1.07
Answer: 1.07 (2 marks)

Paper 22 October November 2013

Sarah Leonard, Christian Kaunert



Paper 22 October November 2013:

Cambridge IGCSE® Mathematics Core and Extended Coursebook Karen Morrison, Nick Hamshaw, 2018-03-15 This Cambridge IGCSE Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE Mathematics syllabus 0580 0980 for first examination from 2020 This second edition of Cambridge IGCSE Mathematics Core and Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics 0580 0980 syllabus It contains detailed explanations and clear worked examples followed by practice exercises to allow students to consolidate the required mathematical skills The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end of chapter and exam practice exercises Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level Answers are at the back of the book Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM Karen Morrison, Nick Hamshaw, 2015-12-03 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015

SSC CHSL (10+2) Solved Papers Combined Higher Secondary 2020 Arihant Experts, 2019-01-16 SSC Staff Selection Commission SSC has released the application form for Combined Higher Secondary Level CHSL It is a competitive examination for the recruitment of Lower Divisional Clerk Junior Secretariat Assistant Postal Assistant Sorting Assistant and Data Entry Operators for various Government of India Ministries Departments Offices The recruitment process for SSC CHSL consists of 3 phases which are tier 1 computer based exam tier 2 written exam and skill test as tier 3 The book on SSC CHSL Online Examination Solved Papers 2019 2019 has been revised consciously and carefully for the aspirants who are preparing for the posts of LDC DEO PSA With the help of this book aspirants can self analyze their preparation and can understand the types of various questions their weightage and the situation of questions quickly that have been asked in the exam Apart from Previous Years Solved Papers the book also provides 3 Practice Sets in the end in order to track their progress record Candidates can also avail the 3 Online Practice Sets for free with this book Packed with a perfect set of practice material it is a must have for anyone who wants to enhance their preparation

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Protect Dr Alan Bloomfield, 2016-01-28 Bloomfield charts India's profoundly ambiguous engagement with the thorny problem of protecting vulnerable persons from atrocities without fatally undermining the sovereign state system a matter which is now substantially shaped by debates about the responsibility to protect R2P norm Books about India's evolving role in world affairs and about R2P have proliferated recently but this is the first to draw these two debates together It examines India's historical responses to humanitarian crises starting with the 1971 Bangladesh Liberation War concentrating on the years 2011 and 2012 when India sat on the UN Security Council Three serious humanitarian crises broke during its tenure in Cote d'Ivoire Libya and Syria which collectively sparked a ferocious debate within India The book examines what became largely a battle over what sort of actor modern India is or should be to determine how this contest shaped both India's responses to these humanitarian tragedies and also the wider debates about rising India's international identity The book's findings also have important and largely negative implications for the broader effort to make R2P a recognised and actionable international norm

Hydrogen Science and Engineering, 2 Volume Set Detlef Stolten, Bernd Emonts, 2016-03-21 Authored by 50 top academic government and industry researchers this handbook explores mature evolving technologies for a clean economically viable alternative to non renewable energy In so doing it also discusses such broader topics as the environmental impact education safety and regulatory developments The text is all encompassing covering a wide range that includes hydrogen as an energy carrier hydrogen for storage of renewable energy and incorporating hydrogen technologies into existing technologies

Genetic Discrimination Gerard Quinn, Aisling de Paor, Peter Blanck, 2014-11-20 As genetic technologies advance genetic testing may well offer the prospect of detecting the onset of future disabilities Some research also forwards that certain behavioural profiles may have a strong genetic basis such as the determination to succeed or the propensity for risk taking As this technology becomes more prevalent there is a danger that genetic information may be misused by third parties and that particular genetic profiles may be discriminated against by employers by providers of social goods and services such as insurance companies and even by educational facilities This book explores the different forms and potential uses of genetic testing Drawing together leading experts in disability law bioethics health law and a range of related fields it highlights the ethical and legal challenges arising as a result of emerging and rapidly advancing genetic science On examining transatlantic perspectives on the matter chapters in the book ask whether the US Genetic Information Nondiscrimination Act GINA is proving to be an effective tool in addressing the issue of genetic discrimination and alleviating fears of discrimination The book also reviews what insights may be gained from GINA within employment and health insurance contexts and asks how the UN Convention on the Rights of Persons with Disabilities CRPD may impact similar debates within the European Union The book focuses particularly on the legislative and policy framework in the European Union with an emphasis on the gaps in protection and the scope for specific legislative action in this area This book will be of great interest to scholars and students of discrimination law bioethics and disability law and will be of considerable use to

legal practitioners medical practitioners and policy makers in this area

The Right to Silence in Transnational Criminal Proceedings Fenella M. W. Billing, 2016-09-01

This book considers the effectiveness and fairness of using international cooperation to obtain confession evidence or evidence of a suspect or accused person's silence across borders. This is a question of balance in limiting and protecting the right to silence. The functioning of the applicable law in Denmark, England and Wales and Australia is analysed in relation to investigative and trial measures such as police questioning, administrative questioning, powers, covert surveillance and the use of silence as evidence of guilt. On the national level, this work examines the way in which domestic rules balance the right to silence in national criminal proceedings and whether investigative and trial rules produce continuity throughout the criminal proceedings as a whole. From the transnational perspective, comparative legal analysis is used to determine whether the national continuity may be disrupted to such an extent that cooperation in the gathering of confession evidence causes unfairness. From the international perspective, this research compares the right to silence under the ICCPR and the ECHR to identify the overall effect of cooperating under particular human rights frameworks on the question of balance.

Strategic Management Richard Lynch, 2018-05-09

Strategic Management is a core strategy textbook covering all the major topics particularly from a global perspective. It delivers comprehensive coverage of the subject in an easy-to-read style with extensive examples and a range of free support material that will help you learn actively and effectively. This eighth edition of Strategic Management builds on proven strengths over 70 short case studies to provide easily accessible illustrations of strategy in practice and additional cases available online to provide more in-depth examples of recent strategic decisions involving Sony, Apple and industry sectors. A continuous contrast between prescriptive and emergent views of strategy to highlight the key debates within the discipline, emphasis on practice throughout with features to help you turn theory into practice, major international strategy cases from Europe, Africa, China, India, Middle East and the Americas, clear exploration of the key concepts, comprehensive logical structure to guide you through this complex subject. Specialist chapters on public, third sector, strategy, green strategy and sustainability, entrepreneurial strategy and international and global strategy. New for the eighth edition: Dynamic capabilities and resource renewal explored in a revised and updated chapter; Emergent strategy completely revised in two new chapters, one focusing on innovation and technology and the other exploring knowledge and learning. New material on innovation and strategy in uncertain environments. Case studies from large and small organisations from Google, Spotify and Cadbury to Snapchat, Uber and green energy companies with 14 new cases and many cases updated. This new edition also includes a wealth of free online open access learning resources. Use these materials to enhance and test your knowledge to improve your grades. Online resources include web-based cases with indicative answers, chapter-based support material, long cases and multiple choice questions. Richard Lynch is Emeritus Professor of Strategic Management at Middlesex University, London. He is an active researcher, lecturer and consultant particularly in the area of global strategy and sustainable strategy.

Cambridge O Level Commerce Coursebook Mary Trigwell-Jones, 2016-03-17 This second edition for Cambridge O Level Commerce syllabus 7100 is thoroughly updated for first examination from 2018 Written by an experienced author in an engaging and accessible style this Coursebook provides comprehensive coverage of the syllabus and contains lots of activities and practice questions to help students apply commercial theory with up to date real life examples **Club and**

Prescription Drug Abuse Valerie Bodden, 2014-08-01 This title examines how inhalants and club prescription and over the counter OTC drugs affect individuals and society investigates how people are working to put an end to drug abuse and analyzes the controversies and conflicting viewpoints surrounding the issue Features include a glossary selected bibliography websites source notes and an index plus a timeline and essential facts Aligned to Common Core standards and correlated to state standards Essential Library is an imprint of Abdo Publishing a division of ABDO *Practising Virtue* David D.

Caron, Stephan W. Schill, Abby Cohen Smutny, Epaminontas E. Triantafilou, 2015-11-12 International arbitration has developed into a global system of adjudication dealing with disputes arising from a variety of legal relationships between states between private commercial actors and between private and public entities It operates to a large extent according to its own rules and dynamics a transnational justice system rather independent of domestic and international law In response to its growing importance and use by disputing parties international arbitration has become increasingly institutionalized professionalized and judicialized At the same time it has gained significance beyond specific disputes and indeed contributes to the shaping of law Arbitrators have therefore become not only adjudicators but transnational lawmakers This has raised concerns over the legitimacy of international arbitration *Practising Virtue* looks at international arbitration from the inside with an emphasis on its transnational character Instead of concentrating on the national and international law governing international arbitration it focuses on those who practise international arbitration in order to understand how it actually works what its sources of authority are and what demands of legitimacy it must meet Putting those who practise arbitration into the centre of the system of international arbitration allows us to appreciate the way in which they contribute to the development of the law they apply This book invites eminent arbitrators to reflect on the actual practice of international arbitration and its contribution to the transnational justice system **Searching for a Strategy for the European Union's Area of**

Freedom, Security and Justice Sarah Leonard, Christian Kaunert, 2018-07-26 This book examines the vision and strategy of the EU's Area of Freedom Security and Justice AFSJ which has become one of the key objectives of the European Union EU Recent events have also highlighted the saliency of several of the policy issues at the heart of the AFSJ Amongst them one can mention the terrorist attacks in 2015 in Paris and 2016 in Brussels and the ongoing refugee crisis in the Mediterranean region At the same time the end of the Stockholm programme which provided the strategic framework for the development of the AFSJ between 2010 and 2014 has been followed by the adoption of new strategic guidelines which can only be described as a short vague and general document Life Cycle Assessment in the Agri-food Sector Bruno

Notarnicola,Roberta Salomone,Luigia Petti,Pietro A. Renzulli,Rocco Roma,Alessandro K. Cerutti,2015-01-06 The book presents an overview of the International practices and state of the art of LCA studies in the agri food sector both in terms of adopted methodologies and application to particular products the final purpose is to characterise and put order within the methodological issues connected to some important agri food products wine olive oil cereals and derived products meat and fruit and also defining practical guidelines for the implementation of LCAs in this particular sector The first chapter entails an overview of the application of LCA to the food sector the role of the different actors of the food supply chain and the methodological issues at a general level The other chapters each with a particular reference to the main foods of the five sectors under study have a common structure which entails the review of LCA case studies of such agri food products the methodological issues the ways with which they have been faced and the suggestion of practical guidelines

Dangerous Allies Malcolm Fraser,Cain Roberts,2016-04-12 Australia has always been reliant on great and powerful friends for its sense of national security and for direction on its foreign policy first on the British Empire and now on the United States Australia has actively pursued a policy of strategic dependence believing that making a grand bargain with a powerful ally was the best policy to ensure its security and prosperity Dangerous Allies examines Australia s history of strategic dependence and questions the continuation of this position It argues that international circumstances in the world and in the Western Pacific especially now make such a policy highly questionable Since the fall of the Soviet Union the United States has also changed dramatically making it less relevant to Australia and a less appropriate ally on which Australia should rely Malcolm Fraser argues that Australia should adopt a much greater degree of independence in foreign policy and that we should no longer merely follow other nations into wars of no direct interest to Australia or Australia s security He argues for an end to strategic dependence and for the timely establishment of a truly independent Australia

The A-Z of Cambridge Igcse English Language Akanksha Madan,2018-10-11 If you re tired of studying from vague textbooks and average online resources then this concise crisp guide to achieving excellence in Cambridge IGCSE First Language English is the answer to your problems This comprehensive guide includes Key foundation concepts for success Tasks to develop independent learning skills A step by step process to each exam component including the keys to success structure and phrases to use for Comprehension Task Persuasive Writing Letter Report Journal Speech Interview Newspaper Article Language Task Writer s Effect Summary and Note Making Argumentative and Discursive Writing Descriptive and Narrative Writing Over 20 sample answers This book won t just help you learn it will help you be the A student you ve been longing to be Akanksha s method is immaculate the resource is accessible to all levels and aptitudes of students Harsha Malaney Curriculum Consultant Billabong Schools This book is an invaluable cache of interesting observations It is an A effort by an A student with all the ingredients and simple tips to get an A Sanjoy Bhattacharjee Head of Faculty English Aditya Birla World Academy

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