

Candidate Name

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ZIMBABWE SCHOOL EXAMINATIONS COUNCIL
General Certificate of Education Ordinary Level

MATHEMATICS
PAPER 1

4004/1

NOVEMBER 2022 SESSION 2 hours 30 minutes

Candidates answer on the question paper

*Additional materials:
Mathematical Instruments*

Allow candidates 5 minutes to count pages before the examination.

This booklet should not be punched or stapled and pages should not be removed.

Time 2 hours 30 minutes

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Write your Name, Centre number and Candidate number in the spaces at the top of this page.
Write your centre and candidate number in the box on the top right corner of every page of this paper.

Check that all the pages are in the booklet and ask the invigilator for a replacement if there are duplicate or missing pages.

Answer all questions.

Write your answers in the spaces provided on the question paper using black or blue pens.
If working is needed for any question, it must be shown in the space below that question.
Omission of essential working will result in loss of marks.

Decimal answers which are not exact should be given to three significant figures unless stated otherwise.

Mathematical tables, slide rules and calculators should not be brought into the examination room.

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The number of marks is given in brackets [] at the end of each question or part question.

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A Level Further Mathematics for OCR A Mechanics Student Book (AS/A Level) Jess Barker, Nathan Barker, Michele Conway, Janet Such, 2017-12-14 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the OCR AS A Level Further Mathematics specification for first teaching from 2017 this print Student Book covers the Mechanics content for AS and A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study **Cambridge International AS and A Level Mathematics: Pure Mathematics 2 & 3 Coursebook** Sue Pemberton, Julianne Hughes, 2018-03-15 This series has been developed specifically for the Cambridge International AS A Level Mathematics 9709 syllabus to be examined from 2020 Cambridge International AS A Level Mathematics Pure Mathematics 2 3 matches the corresponding units of the syllabus It clearly indicates materials required for P3 study only and contains materials on topics such as logarithmic and exponential functions trigonometry differentiation integration numerical solutions of equations vectors and complex numbers This coursebook contains a variety of features including recap sections for students to check their prior knowledge detailed explanations and worked examples end of chapter and cross topic review exercises and Explore tasks to encourage deeper thinking around mathematical concepts Answers to coursebook questions are at the back of the book Literacy as Numbers Teacher's Book Mary Hamilton, Bryan Maddox, Camilla Addey, 2015-03-05 A collaborative series with the University of Cambridge Faculty of Education highlighting leading edge research across Teacher Education International Education Reform and Language Education UGC NET History Solved Previous Year Papers | 25+ Papers | 2012 Onwards | On Page Solutions Mocktime Publication, UGC NET History Solved Previous Year Papers 25 Papers 2012 Onwards On Page Solutions **CMBEBIH 2017** Almir Badnjevic, 2017-03-14 This volume presents the proceedings of the International Conference on Medical and Biological Engineering held from 16 to 18 March 2017 in Sarajevo Bosnia and Herzegovina Focusing on the theme of Pursuing innovation Shaping the future it highlights the latest advancements in Biomedical Engineering and also presents the latest findings innovative solutions and emerging challenges in this field Topics include Biomedical Signal Processing Biomedical Imaging and Image Processing Biosensors and Bioinstrumentation Bio Micro Nano Technologies Biomaterials Biomechanics Robotics and Minimally Invasive Surgery Cardiovascular Respiratory and Endocrine Systems Engineering Neural and Rehabilitation Engineering Molecular Cellular and Tissue Engineering Bioinformatics and Computational Biology Clinical Engineering and Health Technology Assessment Health Informatics E Health and Telemedicine Biomedical Engineering Education Pharmaceutical Engineering Cambridge O Level Mathematics Coursebook Audrey Simpson, 2016-03-17 Cambridge O Level Mathematics is a resource to accompany the revised 4024

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Landscape Architecture and Digital Technologies Jillian Walliss,Heike Rahmann,2016-02-12 Landscape Architecture and Digital Technologies explores how digital technologies are reshaping design and making in landscape architecture While the potentials of digital technologies are well documented within landscape planning and visualisation their application within design practice is far less understood This book highlights the role of the digital model in encouraging a new design logic that moves from the privileging of the visual to a focus on processes of formation bridging the interface of the conceptual and material the virtual and the physical Drawing on interviews and projects from a range of international designers including Sn hetta Arup Gustafson Porter ASPECT Studios Grant Associates Catherine Mosbach Philippe Rahm PARKKIM LAAC and PEG office of landscape architecture among others the authors explore the influence of parametric modelling scripting real time data simulation prototyping fabrication and Building Information Modelling on the design and construction of contemporary landscapes This engagement with practice is expanded through critical reflection from academics involved in landscape architecture programs around the world that are reshaping their research and pedagogy to reflect an expanded digital realm Crossing critical theory technology and contemporary design the book constructs a picture of an emerging twenty first century practice of landscape architecture practice premised on complexity and performance It also highlights the disciplinary demands and challenges in engaging with a rapidly evolving digital context within practice and education The book is of immense value to professionals and researchers and is a key publication for digital landscape courses at all levels

Distributed Denial of Service Attacks Rajeev Singh,Mangey Ram,2021-07-19 This book presents new concepts against Distributed Denial of Service DDoS attacks It follows a systematic approach providing cryptographic and mathematical solutions that include aspects of encryption decryption hashing techniques digital signatures authentication probability statistical improvements to machine learning and soft computing as well as latest trends like blockchains to mitigate DDoS attacks

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web explanation the patient has class iii symptoms of heart failure from a known ischemic bmj publishing group limited bmj disclaims all liability and responsibility arising from any reliance supplemental material placed on this supplemental material which has been supplied by the author s heart higuchi k bhargava m heart 2022 108 565 572

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web jul 27 2018 b heart failure c coronary artery disease d myocarditis 14 which of the following medicine should withhold before giving cardioversion a diazepam b digoxin c heparin d warfarin 15 which is the most common blood vessel used in cabg surgery a the saphenous vein b the femoral artery c the popliteal vein

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web jul 24 2021 d all of the above a should be initiated in low doses b upward titration at 2 week intervals c maximum dose as reported effective in clinical trials d