

Thursday 25 May 2023 – Afternoon GCSE (9–1) Computer Science

J277/02 Computational thinking, algorithms and programming

Time allowed: 1 hour 30 minutes

Do not use:		
a calculator		
Please write clearly in black ink. D	o not write in the barcodes.	-
Centre number	Candidate r	number
First name(s)		
Last name		

INSTRUCTIONS

- Use black ink.
- 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 80.
- The marks for each question are shown in brackets [].
- This document has 20 pages.

ADVICE

Read each question carefully before you start your answer.

Ocr Past Papers Science

Rob Toplis, Jenny Frost

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OCR GCSE Computer Science My Revision Notes 2e George Rouse, 2017-04-18 Manage your own revision with step by step support from experienced teachers and examiners Sean O Byrne and George Rouse Use specific case studies to improve your knowledge of Computer Science Apply terms accurately with the help of definitions and key words Plan and pace your revision with the revision planner Use the expert tips to clarify key points Avoid making typical mistakes with key expert advice Test yourself with end of topic questions and answers and tick off each topic as you complete it Get exam ready with last minute quick quizzes at www hoddereducation co uk myrevisionnotes My Revision Notes OCR A level Computer Science George Rouse, Sean O'Byrne, Jason Pitt, 2016-05-23 Exam Board OCR Level A Level Subject Computer Science First Teaching September 2015 First Exam Summer 2016 With My Revision Notes you can Take control of your revision plan and focus on the areas where you need to improve your knowledge and understanding with advice summaries and notes from expert authors Achieve your potential by applying computing terms accurately with the help of definitions and key words on all topics Improve your exam skills by tackling exam style and self testing questions Notes: OCR GCSE (9-1) Computer Science, Third Edition George Rouse, 2021-06-25 Target exam success with My Revision Notes Our updated approach to revision will help students learn practise and apply skills and understanding Coverage of key content is combined with practical study tips and effective revision strategies to create a guide students can rely on to build both knowledge and confidence My Revision Notes OCR GCSE Computer Science will help students br Strengthen subject knowledge and key terms by working through clear and focused key content **My Revision Notes:** OCR A Level Computer Science: Second Edition George Rouse, Jason Pitt, Sean O'Byrne, 2021-09-17 Set your students on track to achieve the best grade possible with My Revision Notes OCR A Level Computer Science Our clear and concise approach to revision will help students learn practise and apply their skills and understanding Coverage of key content is combined with practical study tips and effective revision strategies to create a guide that can be relied on to build both knowledge and confidence With My Revision Notes OCR A Level Computer Science students can br Consolidate knowledge with clear focused and relevant content coverage based on what examiners are looking for Class 5 Past Olympiad Solved Papers (2019 & 2018) Science/ Mathematics/ English/ Cyber/ General Knowledge Disha Experts, 2020-06-20 GCSE Mathematics for OCR Foundation Student Book Karen Morrison, Julia Smith, Pauline McLean, Nick Asker, Rachael Horsman, 2015-04-09 A new series of bespoke full coverage resources developed for the 2015 GCSE Mathematics qualifications Endorsed for the OCR J560 GCSE Mathematics Foundation tier specification for first teaching from 2015 this Student Book provides full coverage of the new GCSE Mathematics qualification With a strong focus on developing problem solving skills reasoning and fluency it helps students understand concepts apply techniques solve problems reason interpret and communicate mathematically Written by experienced teachers it also includes a solid breadth and depth of quality

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selected papers of the 5th International Conference CSEI 2023 held in Kunming China during August 11 13 2023 The 76 full papers and the 21 short papers included in this volume were carefully reviewed and selected from 297 submissions They focus on computer science education informatization and engineering education innovative application for the deeper integration of education practice and information technology educational informatization and big data for education MvRevision Notes: Cambridge National Level 1/2 Sport Science Sue Young, Symond Burrows, 2020-06-15 Enhance your students practical skills and develop their key content knowledge with this proven formula for effective structured revision Target success in the Cambridge National in Sport Science with this revision guide that brings together exam style questions revision tasks and practical tips to help students to review strengthen and test their knowledge With My Revision Notes every student can Enjoy an interactive approach to revision with clear topic summaries that consolidate knowledge and related activities that put the content into context Plan and manage a successful revision programme using the topic by topic planner Build practise and enhance exam skills by progressing through revision tasks and Test Yourself activities Improve exam technique through exam style questions and sample answers with commentary from an expert author and teacher Get exam ready with answers to the activities available online **Innovations in Computer Science and Engineering** Harvinder Singh Saini, Rishi Sayal, Rajkumar Buyya, Govardhan Aliseri, 2020-03-03 This book features a collection of high quality peer reviewed research papers presented at the 7th International Conference on Innovations in Computer Science Engineering ICICSE 2019 held at Guru Nanak Institutions Hyderabad India on 16 17 August 2019 Written by researchers from academia and industry the book discusses a wide variety of industrial engineering and scientific applications of the emerging techniques in the field of computer science Chemistry for OCR A for Double Award David Lees, John Payne, 2001 This series is for schools following OCR A double or separate award for GCSE science The resources offer preparation for the OCR exams with teacher support to minimise time spent on administration The teacher's resources are available on CD ROM in a fully customizable format **Upgrade Your Grades** Rohan Gupta, 2019-02-28 Are you sitting the new 9 to 1 GCSE examinations and wish to achieve good grades Are you overwhelmed by the new syllabus and the workload Do you need some useful and reliable guidance from a student who has nailed the exams This book has been written by a teenager like you Having achieved seven 9s three As and one A in his GCSEs the author has shared his revision style to help many other teenagers to realise their potential In his book Rohan has outlined his tried and tested methods to achieve the best grades There is step by step guide on planning making a timetable and revision techniques leading up to the GCSE exams There are separate chapters for subject specific advice as the same technique cannot work for subjects like English and Chemistry There are tips on how to stay motivated and also relax and enjoy at the same time Smart working rather than a lot of working helps Read this book and arm yourself with studying techniques which will help you not only in your GCSEs but all future exams **Learning to Teach Science in the Secondary School** Rob Toplis, Jenny Frost, 2004-07-15 The

second edition of this popular student textbook presents an up to date and comprehensive introduction to the process and practice of teaching and learning science in the secondary school Atlas of Science Katy Börner, 2010-09-17 Science maps that can help us understand and navigate the immense amount of results generated by today's science and technology Cartographic maps have guided our explorations for centuries allowing us to navigate the world Science maps have the potential to guide our search for knowledge in the same way allowing us to visualize scientific results Science maps help us navigate understand and communicate the dynamic and changing structure of science and technology help us make sense of the avalanche of data generated by scientific research today Atlas of Science featuring more than thirty full page science maps fifty data charts a timeline of science mapping milestones and 500 color images serves as a sumptuous visual index to the evolution of modern science and as an introduction to the science of science charting the trajectory from scientific concept to published results Atlas of Science based on the popular exhibit Places a guide to a PhD thesis that resembles a subway map the structure of science as revealed in a map of citation relationships in papers published in 2002 a visual periodic table a history flow visualization of the Wikipedia article on abortion a globe showing the worldwide distribution of patents a forecast of earthquake risk hands on science maps for kids and many more Each entry includes the story behind the map and biographies of its makers Not even the most brilliant minds can keep up with today s deluge of scientific results **Learning to Teach Science in the Secondary School Jenny** Science maps show us the landscape of what we know Frost, Tony Turner, 2005 The second edition of this popular student textbook presents an up to date and comprehensive introduction to the process and practice of teaching and learning science It takes into account changes in science education since the first edition was published including more recent curriculum reform This new edition builds upon the success of its predecessor introducing new material on the use of ICT in science teaching as well as providing sound informative and useful discussion on managing your professional development knowledge concepts and principles of science planning for learning and teaching in science practical teaching strategies selecting and using resources assessment and examinations and the broader science curriculum Midwest A Collection of Technical Papers, 1976

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angular speed control Sep 1, 2022 — Universiti Teknologi Malaysia. 81310 Johor Bahru, Johor. Date.: 1 September ... Figure C.1: Open loop DC motor Speed control with square wave ... SENSORLESS POSITION CONTROL OF DC MOTOR ... Nov 17, 2015 — ... Universiti Teknologi Malaysia, 81310, UTM Johor Bahru, Johor Malaysia ... Speed Control of D.C. Motor Using PI, IP, and Fuzzy Controller. Speed control of dc motor using pid controller - Universiti ... Nov 28, 2012 — Speed control of dc motor using pid controller - Universiti Malaysia UNIVERSITI TEKNOLOGI MALAYSIA - Universiti Malaysia Pahang. CHAPTER 1 ... Brushless DC Motor Speed Control Using Single Input ... Abstract: Many Industries are using Brushless Direct Current (BLDC) Motor in various applications for their high torque performance, higher efficiency and low ... Design a Speed Control for DC Motor Using an Optimal ... by AI Tajudin · 2022 · Cited by 1 — Abstract—The project purpose to implement Artificial Bee. Colony (ABC) algorithm optimization technique for controlling the speed of the DC motor. (PDF) A response time reduction for DC motor controller ... This paper proposes an alternative solution to maximize optimization for a controller-based DC motor. The novel methodology relies on merge proper tuning with ... Modelling and Simulation for Industrial DC Motor Using ... by AAA Emhemed · 2012 · Cited by 61 — The main objective of this paper illustrates how the speed of the DC motor can be controlled using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a statefeedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ... JANOME DC6030 INSTRUCTION BOOK Pdf Download View and Download Janome DC6030 instruction book online. DC6030 sewing machine pdf manual download. Download 2030QDC-B Manual This sewing machine is designed and manufactured for household use only. Read all instructions before using this sewing machine. Please note that on disposal, ... Janome DC6030 Manuals Manuals and User Guides for Janome DC6030. We have 2 Janome DC6030 manuals available for free PDF download: Instruction Book, Service Manual · Important Safety ... Janome DC6030 Sewing Machine Instruction Manual Janome DC6030 Sewing Machine

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