
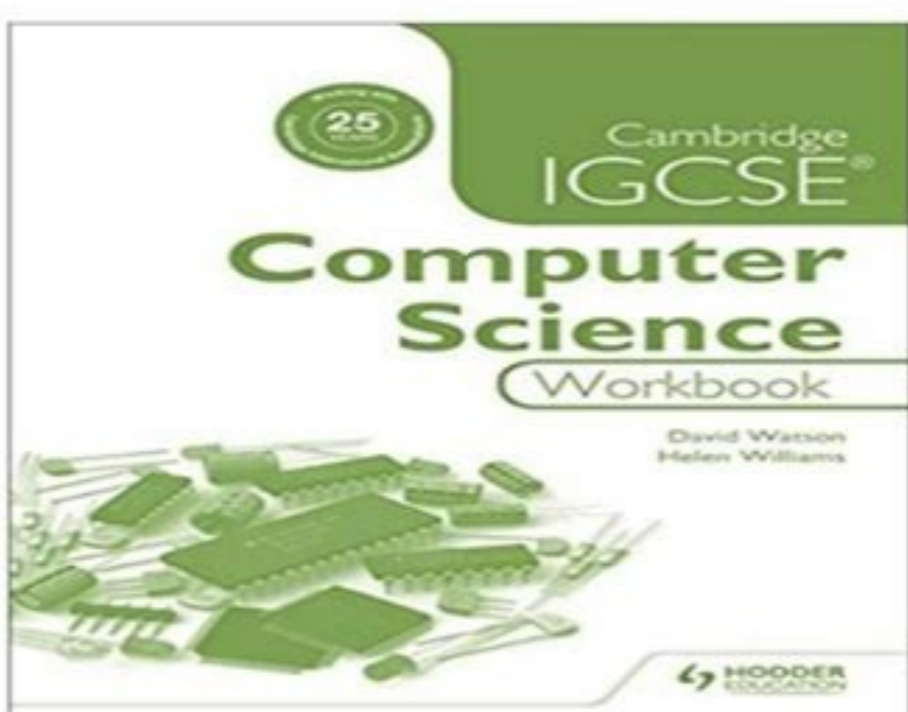
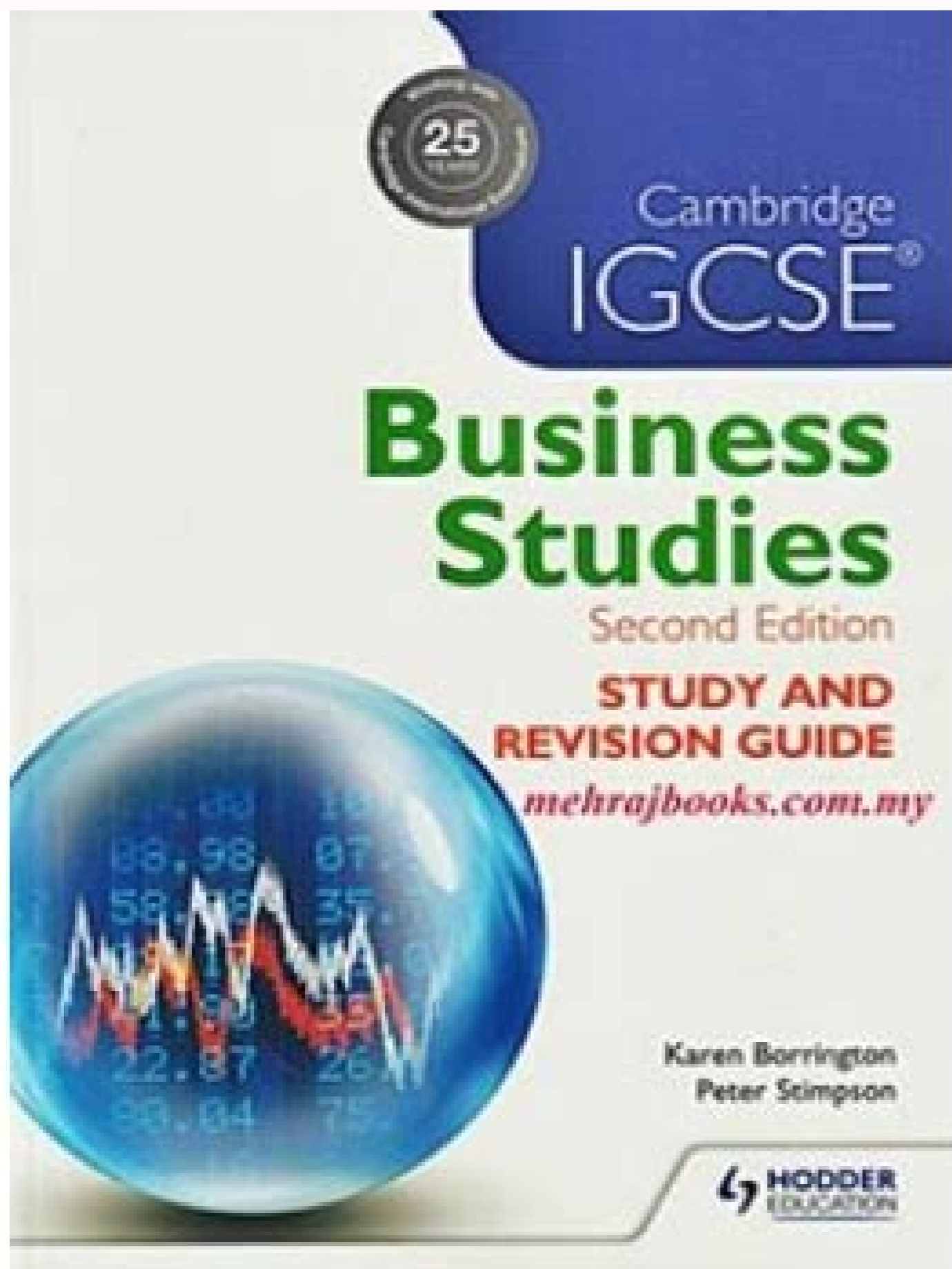
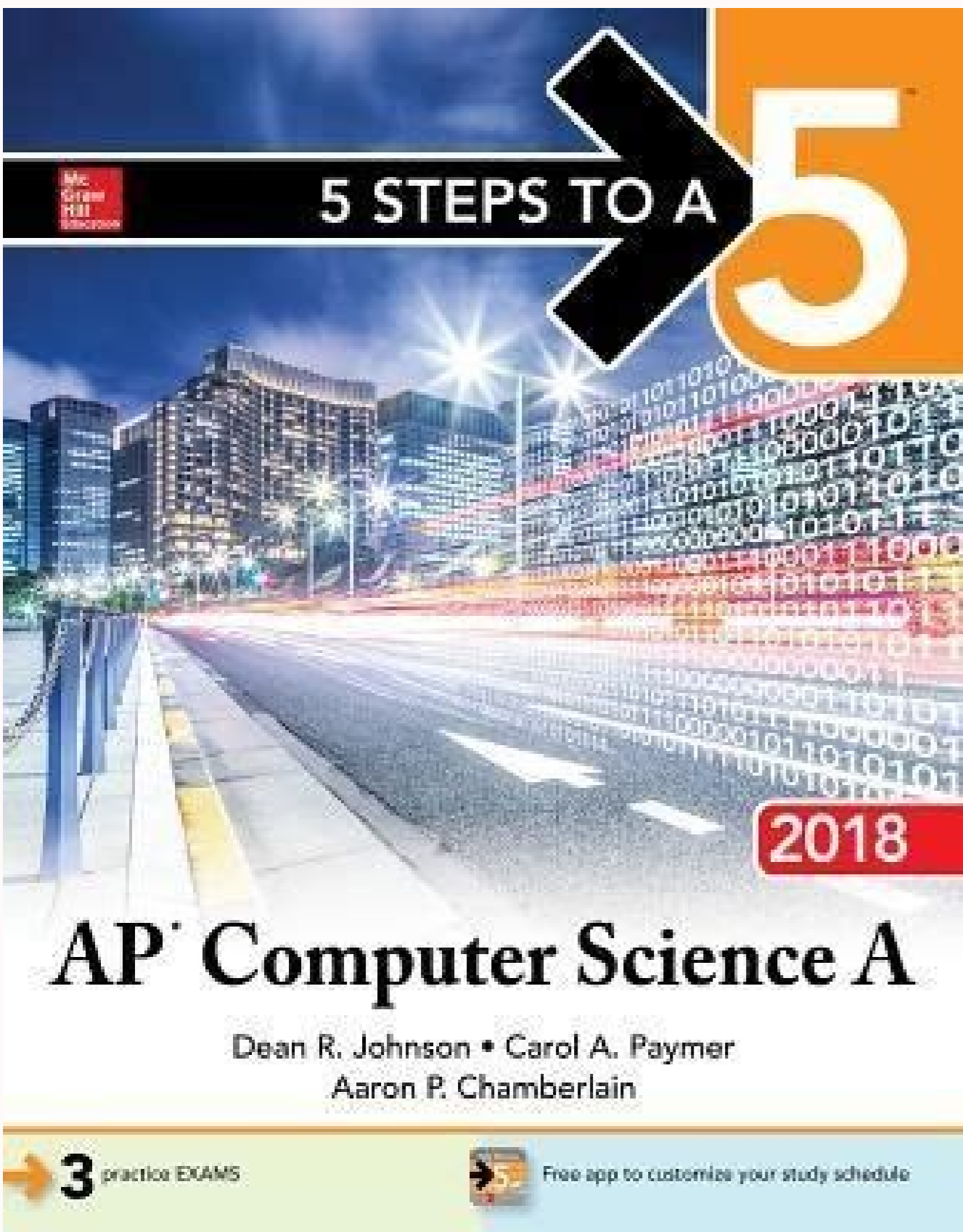
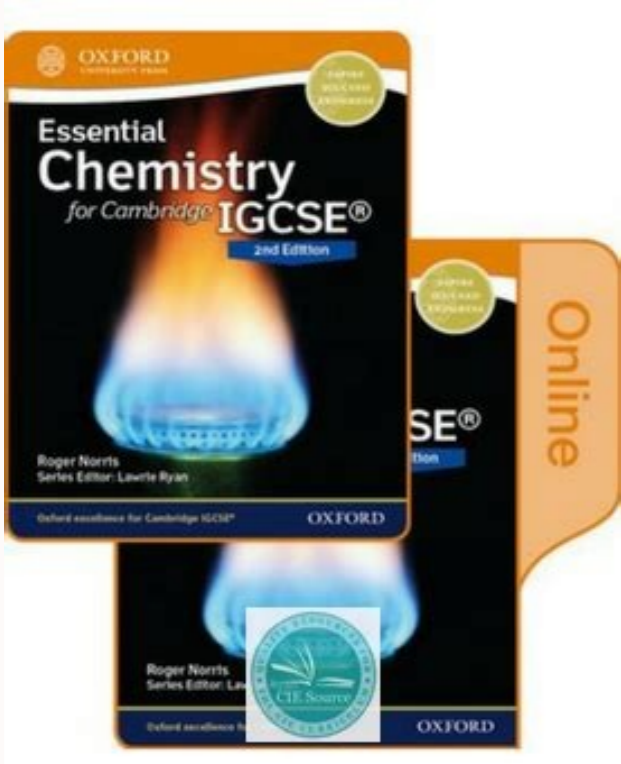


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Accounting

Ian Harrison



Even parity was used by both systems. 10 Cambridge IGCSE Computer Science Workbook Photocopying prohibited 1 Binary systems and hexadecimal 13 By drawing arrows, connect each term on the left to its correct description on the right. c An internet service provider offers the following specifications: • download speed: 80 megabits per second data transfer rate • upload speed: 16 megabits per second data transfer rate i John wishes to download a movie which is 650 megabytes (650 MB) in size. Calculate how long it would take to upload the 30 photographs (in seconds). [1 mark] Give two reasons why MAC addresses need to be changed when using LAA. Email Lines are open from 9 a.m. to 5 p.m., Monday to Saturday, with a 24-hour message answering service. byte number: Orders: please contact Bookpoint Ltd, 130 Park Drive, Milton Park, Abingdon, Oxon OX14 4SE. ISBN: 978 1471 86867 2 Contents 1 Binary systems and hexadecimal 2 2 Communication and internet technologies 13 3 Logic gates and logic circuits 18 4 Operating systems and computer architecture 26 5 Input and output devices 30 6 Memory and data storage 38 7 High-and-low level languages 42 8 Security and ethics 48 9 Problem-solving and design 53 10 Pseudocode and flowcharts 59 11 Programming concepts 65 12 Data structures: arrays and using pre-release material 68 13 Databases 75 3 1 Binary systems and hexadecimal 1 Convert the denary number 165 into: [3 marks] a binary ii Memory dumps

Photocopying prohibited Cambridge IGCSE Computer Science Workbook 3 1 Binary systems and hexadecimal ii 'v' [1 mark] An alarm, X, will give an output value of 1 depending on certain conditions. 6 Cambridge IGCSE Computer Science Workbook Photocopying prohibited 1 Binary systems and hexadecimal b What would be the contents of the 8-bit register if the following conditions existed: [3 marks] • all paint levels are OK • the spray gun is switched off • red and green paint had been selected? 12 Cambridge IGCSE Computer Science Workbook Photocopying prohibited 2 Communication and internet technologies 1 Name the type and method of data transmission being described below: a Data transmitted in one direction only; one bit at a time over a single channel or wire. Cover photo © Scanrail - Fotolia Illustrations by Aptara Inc. [5 marks] Companies that provide the user with access to the internet; a monthly fee is usually charged for this service A unique address that identifies the location of a device which is connected to the internet A unique address that identifies the device that is connected to the internet A set of rules that must be obeyed when transferring files across the internet Software that allows a user to display a web page on their computer screen; they translate the HTML from the website 6 a HTML is made up of structure and presentation. [2 marks] b Convert the hexadecimal number in part a into a 16-bit binary number. ii Convert the binary value in part bi into denary. [2 marks] [1 mark] Disadvantage: 10 What is the denary value of the binary number 0 0 1 1 1 0 0 2? By drawing arrows, connect each question to its correct numerical value (two of the numerical values are not used). c Write the two denary values in part b in 8-bit binary format: 1 [2 marks] 'v' 10 Six questions are shown on the left and eight numerical values are shown on the right. Your steps should allow somebody to follow them clearly to give the correct converted value. The logging and manufacturing processes are expected to conform to the environmental regulations of the country of origin. 14 16 22 If 2x = 1 terabyte (TB), what is the value of x? c Data transmitted in both directions, but not at the same time, along a single channel or wire. [2 marks] 7 a Write down the logic statement to represent the following logic circuit. [3 marks] A B X C b Convert the hexadecimal number in part a into a 16-bit binary number. ii Convert the binary value in part bi into denary. [2 marks] [1 mark] 5 Which internet terms are being described below? 2

Workbook David Watson Helen Williams Hachette UK's policy is to use papers that are natural, renewable and recyclable products and made from wood grown in sustainable forests. 14 Cambridge IGCSE Computer Science Workbook Photocopying prohibited 2 Communication and internet technologies c Nine bytes of data were transmitted from one computer to another computer. D OUTPUT [1 mark] 2 a Describe how it is possible to ensure data arrives correctly identified at its destination when using asynchronous data transmission. c Explain why a single logic gate is often replaced by a logic circuit such as the one shown in part a. b Describe how HTML is used when developing web pages. b Describe how it is possible to ensure that data is received in the correct groups when using synchronous data transmission. c Predict the denary values for the following two letters using the method described in part b: i [4 marks] f 40 Photocopying prohibited [6 marks] Cambridge IGCSE Computer Science Workbook 7 1 Binary systems and hexadecimal 11 START INPUT number X – number D = 128 X – X D No is X < 0? Photocopying prohibited Cambridge IGCSE Computer Science Workbook 11 1 Binary systems and hexadecimal c What is the largest denary number that can be represented by two bytes using this BCD system? i Write down the contents of the 8-bit register after the bits have been moved to the right. ii 77 Presentation: The following table shows the nine bytes and parity byte following transmission: i parity bit bit 2 bit 3 bit 4 bit 5 bit 6 bit 7 bit 8 byte 1 1 1 1 0 1 1 0 byte 2 1 0 0 0 0 1 0 0 byte 3 0 1 1 1 0 0 1 0 byte 4 0 1 1 1 0 1 1 byte 5 1 1 0 0 0 1 1 0 byte 6 0 1 1 0 1 1 0 1 byte 7 1 0 0 1 0 0 0 0 byte 8 0 1 1 1 1 0 1 1 byte 9 0 0 0 0 1 0 0 1 parity byte: 0 0 1 1 1 0 0 0 One of the bits has been transmitted incorrectly. Photocopying prohibited Cambridge IGCSE Computer Science Workbook 17 3 Logic gates and logic circuits 1 Which logic gates have the following three truth tables? Photocopying prohibited Cambridge IGCSE Computer Science Workbook 19 3 Logic gates and Logic circuits 5 a Complete the truth table for the following logic circuit: [4 marks] A B X C A B C 0 0 0 0 0 1 0 1 0 0 1 1 1 0 1 0 1 1 1 0 1 1 1 Working area X b Which simplified logic circuit could replace the logic circuit in part a? [2 marks] Advantage: b A MAC address can be termed either UAA or LAA. 1 If the colour orange requires value 'FF' for the red hue and value '80' for the green hue, what is the HTML representation for orange? c Show how a tag is closed. 32 How many bits are there in two bytes of data? 5 A computer system uses binary codes for letters of the alphabet as follows: A = 10, B = 11, C = 12, X = 33, Y = 34, Z = 35 a Write the denary value for 'X' in binary using an 8-bit register: [1 mark] b To convert the binary code for 'X' to the binary code for 'x', all the bits in the 8-bit register in part a are moved (shifted) two places to the right. 2 Cambridge IGCSE Computer Science Workbook Photocopying prohibited 1 Binary systems and hexadecimal 3 a How many megabytes (MB) of storage would be needed to store 800 photographs each of which are 16 MB in size? ii m © David Watson and Helen Williams 2016 First published in 2016 by Hodder Education, An Hachette UK Company Carmelite House 50 Victoria Embankment London EC4V 0DZ www.hoddereducation.com Impression number 10 9 8 7 6 5 4 3 2 1 Year 2019 2018 2017 2016 All rights reserved. Explain the difference between these two terms. For example: 1 0 1 0 1 0 1 0 indicates: • all paint levels are OK • spray gun is switched on • red and blue paints have been selected. c i What conditions would be represented by: 0 0 0 0 0 0 0 ? a B X 0 0 0 1 1 1 b A X 0 0 0 1 1 1 c A X 0 0 0 1 1 1 1 1 1 ii Describe what would happen if the register contained: 1 1 1 1 1 1 1 1 [1 mark] d Using your answers to part a and part b, suggest an easy way of finding the ASCII binary code for a lower case letter (e.g. 'm') if the ASCII code for the upper case letter (e.g. 'M') is known. 1 [3 marks] Structure: Photocopying prohibited Cambridge IGCSE Computer Science Workbook 9 1 Binary systems and hexadecimal 12 a The HTML value # FF 00 00 represents the colour red, value # 00 FF 00 represents the colour green, and value # 00 00 FF represents the colour blue. In this system, each denary digit (0 to 9) is represented by a 4-bit binary value: 8 4 2 1 a Give the 4-bit binary codes for the digits 9 and 6. Indicate which bit is incorrect by giving its bit number and byte number: [2 marks] bit number: Fax: (44) 01235 400454. Yes STOP a Trace through the flowchart for the following two values: i Number 220 [4 marks] X D OUTPUT continue on the next page. b Indicate with a tick (3) which of the following statements about USB connections are true: Statement about USB connections [5 marks] True (3) All the wires in a USB connector are used in data transmission The maximum cable length in a USB connection is 2 metres Devices plugged into the computer using the USB connection are automatically detected The USB connection has become the industry standard for most computers The user will always be prompted to download a device driver when the device is plugged in to the computer c Give two examples of devices which can be connected to a computer using a USB connection. b Predict the denary ASCII code for 'v' and 'v': i [2 marks] 'v' The following table describes the process conditions being monitored: Parameter description Parameter Binary value Description of condition reaction temperature T 0 temperature > 120 °C 1 temperature 2 bars 1 pressure 4 moles 1 acid concentration 120 °C and acid concentration a Write these denary values in 8-bit binary: i [2 marks] 65 6 a Complete the truth table for the following logic circuit: [4 marks] A B X C 20 Cambridge IGCSE Computer Science Workbook Photocopying prohibited 3 Logic gates and logic circuits A B C 0 0 0 0 0 1 0 1 0 0 1 1 1 0 0 1 0 1 1 1 0 1 1 1 Working area X b What single logic gate could replace the following logic circuit? Photocopying prohibited Cambridge IGCSE Computer Science Workbook 21 3 Logic gates and Logic circuits b Draw the logic circuit which corresponds to the following truth table: A B X C 0 0 0 0 1 0 0 1 0 0 1 0 1 0 1 1 1 0 0 1 0 1 1 1 1 1 [4 marks] A B X C 8 A chemical process is monitored using a logic circuit. 12 If the download speed for broadband is 64 megabits per second, how long would it take to download a 96 megabyte file (in seconds)? Photocopying prohibited Cambridge IGCSE Computer Science Workbook 5 1 Binary systems and hexadecimal 8 a Explain the two parts that make up a typical MAC address. 4 a A system uses even parity. b Indicate how you would know whether or not a website was secure. 2 a Convert the following binary number into denary: [6 marks] 01110110 write down what web address/URL is being represented below: [3 marks] %77%77%77%2E%48%26%53%73%74%75%64%79%20%62%6F%66%73%2E%63%6F% 2E%75%6B There are three inputs to the logic circuit representing the parameters being monitored in the chemical process. ii If the colour tan requires value 'B1' for the red hue, value '89' for the green hue and value '04' for the blue hue, what is the HTML representation for tan? You can also order through our website: www.hoddereducation.com © IGCSE is the registered trademark of Cambridge International Examinations. 7 a Convert the denary number 44801 into hexadecimal. [3 marks] ii Explain how you arrived at your answer to part ci. b Write your answer from part a in gigabytes (GB). [4 marks] A B X C 4 a Complete the truth table for the following logic circuit: [2 marks] A X B A B 0 0 0 1 1 0 1 1 Working area X b Which single logic gate is represented by the truth table in part a? OUTPUT 1 Yes OUTPUT 0 X–X+D D = D/2 No is D < 1? Photocopying prohibited Cambridge IGCSE Computer Science Workbook 15 2 Communication and internet technologies v Name and briefly describe another method to check if data has been transmitted correctly. Calculate how long it would take (in seconds) to download the movie. d Using normal binary notation, what is the largest denary number that could be represented by two bytes? e Suggest a use for the BCD system. Typeset by Aptara, Inc. [5 marks] hypertext mark-up language (HTML) the contents of the computer memory are output to a screen or printer; this enables a software developer to locate errors hexadecimal number system this is used to develop web pages; it is used in the processing, definition and presentation of text (e.g. the specification of a text colour) memory dump value, written in hexadecimal, which is used to uniquely identify a device on the network; it is often written in the form: NN-NN-NN-DD-DD-DD media access control (MAC) address number system which uses the values 0 to 9 and the letters A to F to represent digits web address also identified as a URL such as: www.books.com 14 A computer uses a binary system known as Binary Coded Decimal (BCD). 4 Cambridge IGCSE Computer Science Workbook Photocopying prohibited 1 Binary systems and hexadecimal 6 a Describe how hexadecimal notation is used in the following: i [6 marks] MAC addresses 2 Complete the truth table for the following logic circuit: [4 marks] A B X C A B C 0 0 0 0 0 1 0 1 0 0 1 1 1 0 0 1 0 1 1 0 1 1 1 Working area 3 a Write the following statement as a logic statement: X [3 marks] X is 1 if A and B are on or if B is off and C is on 15 Write down a series of steps that could be used to convert a denary number into a hexadecimal number. What is the denary value of the hexadecimal digit 'E'? [1 mark] 16 Cambridge IGCSE Computer Science Workbook Photocopying prohibited 2 Communication and internet technologies 7 Look at the following two HTML parts: Part A Part B a Which of the above parts shows the .css file? b Several bits of data transmitted in both directions at the same time over several channels or wires. iv Describe a situation where a parity check would not identify which bit had been transmitted incorrectly. 8 4 2 1 8 4 2 1 [2 marks] 9 6 b Which denary numbers are represented by the following 4-bit binary codes: 8 4 2 1 8 4 2 1 0 0 0 1 0 1 [4 marks] 18 Cambridge IGCSE Computer Science Workbook Photocopying prohibited 3 Logic gates and logic circuits b Draw the logic circuit to represent your statement in part a. Apart from any use permitted under UK copyright law, no part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or held within any information storage and retrieval system, without permission in writing from the publisher or under licence from the Copyright Licensing Agency Limited. d Convert the following hexadecimal number into binary: 3ED [2 marks] 1 28 What is the hexadecimal value of the denary number 5 0 ? Printed in the UK A catalogue record for this title is available from the British Library. [7 marks] 8 Cambridge IGCSE Computer Science Workbook Photocopying prohibited 1 Binary systems and hexadecimal Number X D OUTPUT ii 73 Number [4 marks] X b State the function of the flowchart in part a. 9 An 8-bit register is used to control a paint spray gun. e Which number base is used to represent values in the color definition? [2 marks] b c Convert the following binary number into hexadecimal: 101011000100 This text has not been through the Cambridge endorsement process. Further details of such licences (for reprographic reproduction) may be obtained from the Copyright Licensing Agency Limited, Saffron House, 6–10 Kirby Street, London EC1N 8TS. ii 'v' iii 0 0 0 1 1 1 1 1 0 1 0 1 0 1 [3 marks] 1 0

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