

	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Advanced Subsidiary Level and Advanced Level
CANDIDATE	
CENTRE NUMBER	CANDIDATE NUMBER
COMPUTING	9691/11
Paper 1	May/June 2011
Candidates and	1 hour 30 minutes swer on the Question Paper.

No additional materials are required.

No calculators allowed.

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READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in. Write in dark blue or black pen. You may use a soft pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid. DO NOT WRITE IN ANY BARCODES.

Answer all questions.

No marks will be awarded for using brand names for software packages or hardware.

At the end of the examination, fasten all your work securely together.

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

This document consists of 11 printed pages and 1 blank page.



		2 have been a strange bee
(a)	Def	2 ine the terms: hardware
	(i)	hardware
	(ii)	software
		[2]
		market has a number of point-of-sale terminals. read from goods at the terminals and information is produced.
(b)	Sta	te two output devices which would be used at the point-of-sale, justifying their use.
	De	vice 1
	Jus	stification
	 De	vice 2
	Jus	stification
		[4]
(c)		te three types of output needed at the point-of-sale terminals. For each type of out explain why the output is needed.
	Ou	tput 1
	Ou	tput 2
	Ou	tput 3
		· · · · · · · · · · · · · · · · · · ·
		[6]

www.papaCambridge.com 3 (d) The management of the supermarket use a number of different types of software State what each of the following types of software would be used for. Give a feature of each which makes it suitable for your use. (i) Desktop publishing (DTP) Use _____ Feature [2] (ii) Presentation software Use Feature [2]

www.papaCambridge.com 4 A systems analyst is employed to produce a new stock control system for a compare 2 manager of the company is not satisfied with the present system. (a) Explain the importance to both analyst and manager of defining the problem accurately. You should make clear the part played by each person. [4] (b) (i) Explain how the evaluation of the new system will be carried out. (ii) Explain why the evaluation is important to both the analyst and the manager. [4]

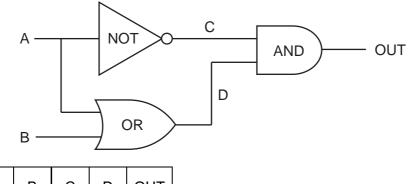
3	(a)	(i)	5 Explain what is meant by the character set of a computer.	For
				Tidge.com
		(ii)	Explain how a character is represented in a computer.	
	(b)	Exp	[4]	
		•••••	[3]	

Image: Second state of the second s				they are a second secon	
(ii) When the member file is accessed using hashing, clashes can occur. State what is meant by a clash and how it can be dealt with.				6	
(ii) When the member file is accessed using hashing, clashes can occur. State what is meant by a clash and how it can be dealt with.	4	A lil	brary	r membership system identifies members by their unique 6-digit ID number.	Fo
(ii) When the member file is accessed using hashing, clashes can occur. State what is meant by a clash and how it can be dealt with.		(a)	Exp (Yo	blain how the member file could be accessed using indexes. u may find it helpful to draw a diagram.)	idge
(i) When the member file is accessed using hashing, clashes can occur. State what is meant by a clash and how it can be dealt with.					
(b) (i) Explain how hashing could be used to access the member file randomly.					
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(ii) When the member file is accessed using hashing, clashes can occur. State what is meant by a clash and how it can be dealt with.		(b)	(i)		
(ii) When the member file is accessed using hashing, clashes can occur. State what is meant by a clash and how it can be dealt with.					
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State what is meant by a clash and how it can be dealt with.					
			(ii)		
				,	
[4]					
				[4]	

		7	
		200	
5	(a) Des	scribe the purpose of each of the following parts of a processor:	For
	(i)	7 scribe the purpose of each of the following parts of a processor: Control unit	honida iner's
			Com
		[2]	
	(ii)	Memory unit	
		[2]	
	(iii)	ALU	
		[2]	

- 8

 (b) Describe the use of buffers and interrupts in the transfer of data between the transfer of
- 6 Complete the table for this circuit of logic gates.



А	В	С	D	OUT
0	0			
0	1			
1	0			
1	1			

[6]

	Mary .	
	9	
7	9 An interactive computer system in a shopping mall is intended to give information of the human customers. Discuss how the use of colour, layout and content will influence the design of the human computer interface (HCI).	or iner's
	Colour	
	Layout	
	Content	
	[6]	

	10 XX. D	
a)	10 State two differences between a local area network (LAN) and a wide area (WAN).	Can
	1	
	2	
		[2]
b)	State what is meant by each of the following types of data transmission. Give advantage of each.	an
	(i) Serial	
	Advantage	
	(ii) Parallel	
	Advantaga	
	Advantage	[4]
		ניין
c)	The following bytes were received during a data transmission.	
	01101101 1010100 10111101 10110001	
	Parity is being used as an error check. State which one of the bytes has been corrupted. Explain why you chose the one th you did.	nat
	Corrupted byte	
	Reason	
		[3]

		11 Describe a single-user operating system.	
9	(a)	Describe a single-user operating system.	For iner's
			19e.co.
		[2]	
	(b)	Explain how a multi-user operating system allows many users to use the computer system.	
		[4]	



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