

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

General Certificate of Secondary Education

INFORMATION AND COMMUNICATION TECHNOLOGY

PAPER 3 (FOUNDATION TIER)

2359/01

Wednesday

7 JUNE 2006

Morning

1 hour

Candidates answer on the question paper. No additional materials are required.

Candidate Name						
Centre Number		7	Candidate			
Number			Number			

TIME 1 hour

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the boxes above.
- Answer all the questions.
- Write your answers, in blue or black ink, in the spaces on the question paper.
- Do not write in the bar code. Do not write in the grey area between the pages.
- **DO NOT** WRITE IN THE AREA **OUTSIDE** THE BOX BORDERING EACH PAGE. ANY WRITING IN THIS AREA WILL NOT BE MARKED.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- No marks will be awarded for using brand names of software packages or hardware.
- The total number of marks for this paper is **60**.

EOD E	XAMINER'	e liee
Question	Max.	Mark
No.	mark	
1	2	
2	2	
3	3	
4	2	
5	4	
6	5	
7	6	
8	8	
9	2	
10	2	
11	6	
12	9	
13	5	
14	4	
TOTAL	60	

This question paper consists of 8 printed pages and 4 blank pages.

Answer all questions.

1 Underline two developments in ICT that make it easier for people to work from home.			iome.				
	bar-code readers	cheap p	personal computers	databa	databases		
	digital watches	electro	nic mail	joystic	cks	[2	
2	Underline two securit	y measures used ir	computer systems.				
	analysis	encryption	evaluation				
	MICR	passwords	touch screens			[2	
3	Tick three benefits to	librarians of using a	a computerised library	system.			
					Tick (✓)		
	They can sort books	alphabetically on the	ne shelves.				
	They can find names	of authors very qu	ickly.				
	They can have longe	r breaks.					
	They can send remir	ders automatically.					
	They can search for	books kept at other	libraries while a custo	omer waits.			
	They can put returne	d books back on th	e shelves very quickly	<u>'</u> .			
						[3]	
4	Underline two method	ds of innutting data	to a computer				
7		. •	•				
	central processin	j unit g	raphics tablet	mail merge			
	OCR	р	lotter	RAM		[2]	

5	A co	omputer has two types of memory, RAM and ROM.	
	(a)	What does RAM stand for?	
			[1]
	(b)	What is RAM used for?	
			[1]
	(c)	What does ROM stand for?	
	(-)		. [1]
	(q)	What is ROM used for?	[.]
	(ω)		
			[1]
6		st computers use a graphical user interface (GUI). Below are some examples of icons	in a
	GU	l.	
		ABC	
	(a)	What is an icon?	
			[1]
	(b)	Why are icons used in GUIs?	
			[2]
	(c)	A keyboard is used to input data.	
	` ,	Give two other input devices commonly used with a GUI.	
		Device 1	
		Device 2	

A company sells DVDs over the Internet.

(a) Give two reasons why the company might ask a customer to enter codes when ordering DVDs.
Reason 1
Reason 2
[
When a DVD is sold, a customer enters a six digit code which is checked by the computer.
(b) (i) State what this method of checking is called.
[
(ii) Give one reason why this type of check is used.
[
The current computer system cannot cope with the number of orders. The company decides to p in a new system.
(c) Give two methods the company could use to implement (introduce) the new system.
Method 1
Method 2
[

(a)	Describe two methods the police could use to ensure this data is not lost or corrupted.	
	Method 1	
	Method 2	
(b)	Some of the data held on the PNC is encrypted.	
	(i) What is encrypted data?	
	(ii) Give one reason why data is encrypted.	
The	police archive some data.	
(c)	Describe what the term <i>archive</i> means.	
	lain why an aeroplane flying on autopilot uses real-time processing rather than bessing.	ba

10 Give **two** actions that are illegal under the Computer Misuse Act.

Action 1	
Action 2	

11 When creating a computer system it has to be analysed, designed, developed, tested and implemented.

Tick **one** box in each row that **best** describes the stage when each step would take place.

Step	Analysing (√)	Designing (√)	Developing, Testing and Implementing (✓)
Check the system gives the required output.			
Create the data and file structures.			
Describe any validation required.			
Draw diagrams to describe the system processing.			
Interview future users about their requirements.			
Specify suitable hardware and software.			

12 Many garden centres grow tropical plants in greenhouses with computer-controlled environmental

sys	tems.
(a)	State four pieces of hardware, other than a computer, that would be necessary in this system.
	1
	2
	3
	4[4]
(b)	Describe how a computer system can control the environment in a greenhouse.
	[5]

13 A supermarket uses Electronic Funds Transfer (EFT) to accept payment.

	(a)	At the checkout, a customer uses a bank card to pay for goods.
		Describe the steps that occur after the card is handed to the cashier.
		[4]
	(b)	Give one advantage to the supermarket of using EFT instead of accepting cheques for payment of goods.
		[1]
14	LAN	Ns and WANs are different types of network.
		scribe the features of these two types of network.
	LAN	V
		[2]
	WA	N
		[2]

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