Centre Number			Candidate Number		
Surname					
Other Names					
Candidate Signature					



General Certificate of Secondary Education January 2012

45204

Information and Communication Technology (Short Course)

Written Paper

Friday 13 January 2012 9.00 am to 10.00 am

You will need no other materials.	
You may use a calculator.	

Time allowed

• 1 hour

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer eight questions.
- Answer all questions in Sections A and B. In Section C, answer either Question 8 or Question 9, which should be answered in continuous prose. In this question you will be marked on your ability to:
 - use good English
 - organise information clearly
 - use specialist vocabulary where appropriate.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You are reminded of the need for good English and clear presentation in your answers.

For Exam	iner's Use
Examine	r's Initials
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
TOTAL	



Section A

Answer **all** questions in the spaces provided.

1

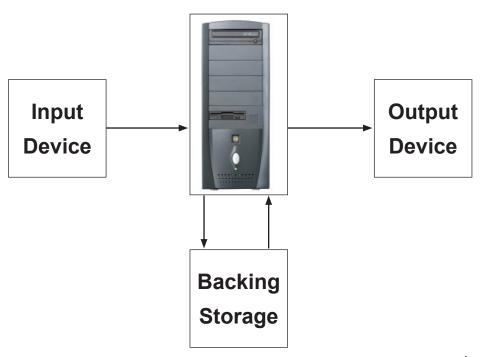


Image © Thinkstock

The diagram above represents the layout of a general purpose home desktop computer.

1 (a)	Name two input devices that you would expect to be used with a general purpose
	home desktop computer.

Input device 1	
Input device 2	
·	(2 marks)

1 (b) Name **two** output devices that you would expect to be used with a general purpose home desktop computer.

Output device 1	
Output device 2	

(2 marks)

1 (c)		ne desktop compute hardware and softv	r will use software as well as hardware. What is n	neant by the
	Hardv	vare		
	Softw			
				(2 marks)
2 (a)		ach row of the table nes the description.	below, choose the letter from A , B , C , D , E or F w	hich best
	A Br	oadband	D File server	
	B Di	al-up modem	E Mobile device	
	C e-	mail server	F Print server	
		Description of ne	twork device	Letter
	(i)		ovides workstations on a network with controlled of shared resources	
	(ii)	A device that enab	les a computer to transmit data over telephone	
	(iii)		ions network in which the bandwidth can be I by multiple simultaneous signals	
				(3 marks)
2 (b)	What	does the abbreviation	on LAN stand for?	
				(1 mark)
2 (c)	Descr	ibe the difference b	etween a LAN and a WAN.	
				(2 marks)
				(2 marks)



As part of a school Enterprise Day, a group of students are planning to sell a range of printed T-shirts. Below is a spreadsheet that they have set up to help them model possible profit or loss.

	А	В	С	D
1	12/02/2012			
2				
3	Expenditure			
		Unit	Number	
4		Cost	bought	Cost
5	T-shirt (small)	£2.00	50	£100.00
6	T-shirt (medium)	£2.50	100	£250.00
7	T-shirt (large)	£3.00	150	£450.00
8	Total		300	£800.00
9				
10	Cost of printing each T-	shirt (any	size)	£1.00
11				
12		Tot	al spent	£1,100.00
13				
14	Income			
		Selling	Number	
15		price	sold	Cost
16	T-shirt (small)	£4.00	40	£160.00
17	T-shirt (medium)	£4.50	80	£360.00
18	T-shirt (large)	£5.00	125	£625.00
19				
20		Tota	I income	£1,145.00
21				
22		Pr	ofit/Loss	£45.00

3 (a)	Which cell contains the text Income ?	(1 mark

3 (b) Tick **one** box to show which word describes the data in cell A1.

	Tick one box only
Currency	
Date	
Formula	
Number	

(1 mark)



	Tick one box only	
=B5+C5	DOX OTHY	
=B5-C5		
=B5*C5		
=B5/C5		(1 ma
	Tick one	
	box only	
AVERAGE		
AVERAGEUP		
COUNT		
RANK		(1 ma
		the ROUNDUP functions available
within spreadsheets.	You may find it helpful to	give examples. (2 mar



4 H&L Games rents computer games to its members. They have produced the data capture form below to collect information from their members. They planned to produce a professional looking form that was easy to use.

	Please complete this registration form and send	it back to the address given below.
	LastName	
	First name	
	Address 1	
	Postcoče	
	Teleptora Number	
	Title	
	Favourite types of game	
Give th	ree reasons why this data capture form	is not fit for purpose.
Reasor	1	
Reasor	2	



	Tick one box only	
Bar codes		
Chip and Pin		
Questionnaire		
Voice recognition		(1 ma

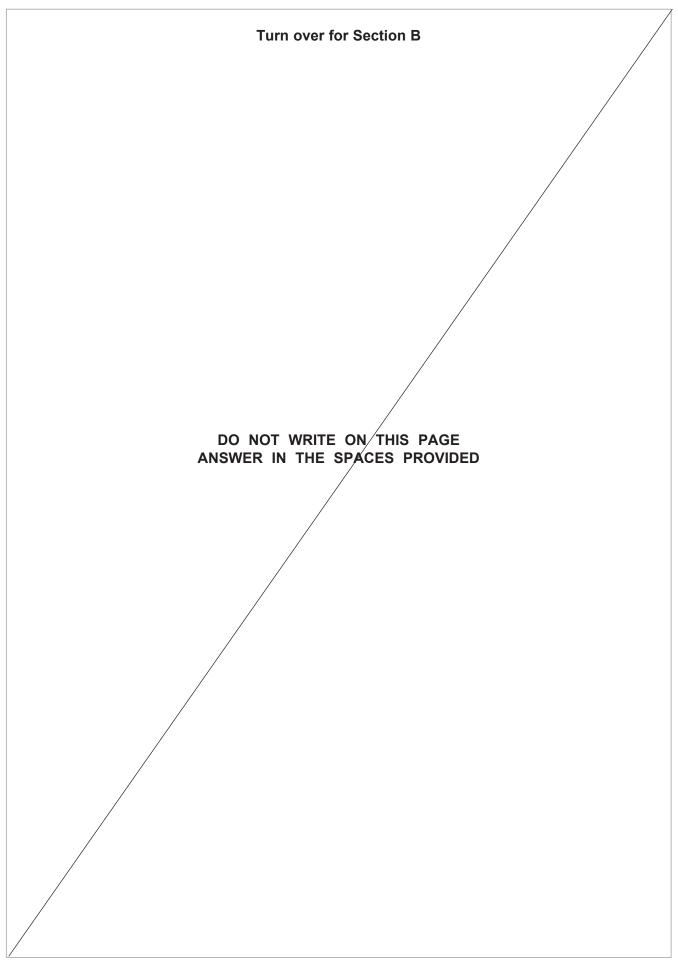
Turn over for the next question



5	InFashion is a shop selling a wid to computerise their existing stoc in the system life cycle used in the	k filing system. The following	g are some of the stages
	Feasibility study	Testing	Documentation
	Analysis	Implementation	Evaluation
	Design	User training	Maintenance
5 (a)	At which of these stages does ea	ach of the following take place	e?
5 (a) (i)	i) Collecting information about how the existing system works		
5 (a) (ii)	Producing a plan for testing the s	system	(1 mark)
			(1 mark)
5 (a) (iii)	Entering test data into the new st	tock filing system	
			(1 mark)
5 (a) (iv)	Reviewing the effectiveness of the	ne system	
			(1 mark)
5 (a) (v)	Listing the desired outcomes and	d performance criteria	
			(1 mark)
5 (b)	Explain what is meant by the sys	stem life cycle being an 'iterat	ive review process'.
			(2 marks)

7







Section B

Answer **all** questions in the spaces provided.

A health club stores information about its members in a database table. Part of the database table is shown below.

Member Code	Last Name	Other Name	Gender	House Number	Postcode	Date of Birth	Member Fee
GY0340	Dobson	Jon	М	37	LN1 7BZ	22/12/1949	£21
GY0789	Smith	Peter	М	4	LN3 1CC	14/08/1985	£31
GY0986	Adams	David	М	45	LN3 1BL	21/01/1976	£31
GY1003	Adams	Ann	F	45	LN3 1BL	04/08/1996	£19
GY1029	Hall	Sue	F	17	LN2 7BB	31/12/1997	£19
GY1100	Chang	Liu	F	9	LN1 7AD	09/11/1990	£31
GY1104	Kelly	Jane	F	33	LN2 8CD	28/06/1980	£31
GY1111	Quinn	Alex	М	122	LN5 2CH	14/07/1998	£12
GY1123	Vento	Alan	М	1	LN6 1GN	10/11/1984	£31
GY1198	Datta	Daniel	М	49	LN9 6FC	12/02/1956	£21
GY1201	Datta	Vera	F	49	LN9 6FC	19/04/1958	£21

6 (a)	How many records are shown in this database table?	(1 mark)
6 (b)	Why would the Last Name field not be suitable to use as the key field?	
		(1 mark)
6 (c)	Write the Member Code (s) of the members whose records are selected using following search criteria:	the
6 (c) (i)	Search criteria: Postcode equals LN3 1BL	
	Record(s) selected	(1 mark)
6 (c) (ii)	The * used in the following search criteria is a wildcard.	
	Search criteria: Last Name equals D*	
	Record(s) selected	
		(1 mark)



			(5 ma
)	People are increasingly using the Internet to access a and applications, such as Internet auction sites, online sites. Tick two boxes to show which of the following are dis Internet auction site compared with buying the same if	banking and	ge of ICT syster social networkin f buying from ar
)	and applications, such as Internet auction sites, online sites. Tick two boxes to show which of the following are dis	advantages of the from a high	ge of ICT syster social networkin f buying from ar
)	and applications, such as Internet auction sites, online sites. Tick two boxes to show which of the following are dis Internet auction site compared with buying the same it	advantages of the from a high	ge of ICT syster social networkin f buying from ar
)	and applications, such as Internet auction sites, online sites. Tick two boxes to show which of the following are dis Internet auction site compared with buying the same if	advantages of the from a high	ge of ICT syster social networkin f buying from ar
)	and applications, such as Internet auction sites, online sites. Tick two boxes to show which of the following are dis Internet auction site compared with buying the same it The item will be cheaper as there is no postage The items always cost a lot more	advantages of the from a high	ge of ICT syster social networkin f buying from ar
)	and applications, such as Internet auction sites, online sites. Tick two boxes to show which of the following are dis Internet auction site compared with buying the same if	advantages of the from a high	ge of ICT syster social networkin f buying from ar

7 (b)	Describe what is meant by a social networking site.
	(2 marks)
7 (c)	Describe a range of software and hardware features that are used to help people with disabilities to access ICT systems.
	(5 marks)



Section C

You should answer either Question 8 or Question 9, but not both.

You will be marked on your ability to use good English, to organise information clearly and to use specialist vocabulary where appropriate.

EITHER	
8	Discuss how emerging technologies affect the way in which people and organisations operate and work together.
	This space is available for planning your answer if you wish to use it.



 	 (12 marks)



12

OR	
9	Discuss a range of online hazards. Describe possible methods of avoiding some of these.
	This space is available for planning your answer if you wish to use it.





 (12 mark

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