Centre Number			Candidate Number		
Surname					
Other Names					
Candidate Signature					



General Certificate of Secondary Education Higher Tier June 2010

Information and Communication Technology (Specification B)(Short Course)



Written Paper

Monday 21 June 2010 9.00 am to 10.30 am

You will need no other materials.

You may use a calculator.

Time allowed

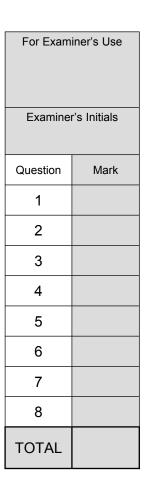
• 1 hour 30 minutes

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer all questions.
- 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.



Answer all questions in the spaces provided.

ZoneGem sells watches and jewellery.A secretary is writing a letter using word processing software. The letter looks like this.

ZoneGem Universe House Little Norton Anderstown AN12 2ZZ

01288 674765 bn@ZoneGem.com

21/06/2010

Dear Mr Kowalczyk

Many thanks for your order. We do not have all the items on your order in stock.

You can choose: next day delivery; within 3 working days; or economy.

We have the SWgold watch in stock at a cost of £350.

Noble

Yours sincerely

B Noble

Paragraph A

}Paragraph B



1	(a)	The secretary wants to align some text.
		Write one label in the box to name the type of alignment shown

Label	Type of Alignment
Α	Left
В	Centred
С	Right
D	Justified
Е	Horizontal

Write one label in the box

(1 mark)

1	1 (b)	Describe how the secretary could rearrange the letter so that paragraph A is below paragraph B.				
		(2 m	 narks)			

Question 1 continues on the next page



1 (c) The secretary is designing a logo for ZoneGem to be used in the letter heading. Write **one** label in each box to name the feature used.

Label	
Α	Page layout
В	Wizard
С	Autoshape
D	Template
E	Word art

1 (c) (i)

Feature	Write one label in the box
zoneGem	

(1 mark)

1 (c) (ii)

9	
ZoneGem	

(1 mark)



1	(d)	The secretary sends the letter as an e-mail attachment. Describe two possible security threats to ZoneGem.	
		Security threat 1:	
		Security threat 2:	
		(2 morks)	
		(2 marks)	-
		Turn over for the next question	_

7



A plumber uses a computer to work out the cost of refurbishing a kitchen for a customer. This is known as a quotation.

Part of the information displayed on the monitor is shown below.

	А	В	С	D
1	Materials	Unit Cost	Quantity	
2	Sink	£200.00	1	£200.00
3	Sink taps	£50.00	2	£100.00
4	Washing machine	£350.00	1	£350.00
5	Washing machine taps	£25.00	2	£50.00
6	Wall tiles	£2.00	50	£100.00
7	Floor tiles	£5.00	100	£500.00
8	Total cost of materials £1300			£1300.00
9	Labour costs £500.00			
10	Total cost of materials and labour £1800.00			
11	VAT £270.00			
12	Total cost to customer £2070.00			

- 2 (a) Write one cell reference in each box to show a cell with the feature described.
- 2 (a) (i)

Feature	Write one cell reference in the box
Cell format is currency	

(1 mark)

2 (a) (ii)

Feature	Write one cell reference in the box
Cell content is the formula =SUM(D2:D7)	

(1 mark)

2	(b)	Describe the advantages and disadvantages to the plumber in using the software.
		(3 marks)



(c)	The plumber's employer provides a laptop computer and portable p uses the laptop computer to play online games on the Internet during	-
	Tick one box to show why the plumber should not do this.	
		Tick one box
	The laptop computer has a firewall and antivirus software	
	The plumber has received an e-mail from an Internet bank	
	The plumber should be working not playing online games on the Internet	
	The laptop computer does not have database software	
	The plumber's employer has told the plumber that the laptop computer can be used for business and personal use	
(d)	The laptop computer has been infected by malicious software down Internet.	nloaded from the
(d)	• • •	nloaded from the
(d) (d) (i)	• • •	
, ,	Internet.	
, ,	Internet.	o computer.
, ,	Tick one box to show what could be done to help protect the laptop	o computer.
, ,	Tick one box to show what could be done to help protect the laptop	o computer.
()	Tick one box to show what could be done to help protect the laptop Encrypt e-mails Use antivirus software	o computer.
()	Tick one box to show what could be done to help protect the laptop Encrypt e-mails Use antivirus software Use a burglar alarm	o computer.
()	Internet. Tick one box to show what could be done to help protect the laptop Encrypt e-mails Use antivirus software Use a burglar alarm Keep a regular blog Employ a supervisor to make sure the plumber uses the laptop	Tick one box
(d) (i)	Internet. Tick one box to show what could be done to help protect the laptor Encrypt e-mails Use antivirus software Use a burglar alarm Keep a regular blog Employ a supervisor to make sure the plumber uses the laptop computer only to help with the plumber's job	o computer.
(d) (i)	Internet. Tick one box to show what could be done to help protect the laptop Encrypt e-mails Use antivirus software Use a burglar alarm Keep a regular blog Employ a supervisor to make sure the plumber uses the laptop	Tick one box
(d) (i)	Internet. Tick one box to show what could be done to help protect the laptor Encrypt e-mails Use antivirus software Use a burglar alarm Keep a regular blog Employ a supervisor to make sure the plumber uses the laptop computer only to help with the plumber's job	Tick one box

-

A doctor looks at information about patients on a computer. This is part of the information displayed on the monitor.

	Patient Number	Surname	Gender	Admission Date	Doctor
	0263	Janiak	F	07/04/2010	Parkinson
	0061	Singh	M	03/04/2010	Aziz
	0882	Walton	F	20/03/2010	James
	0371	Bolton	F	15/03/2010	Parkinson
	0453	Jackson	М	10/01/2010	Parkinson
×					

3 (a) The Patient Number is the key field.
Tick two boxes to show essential features of a key field.

	Tick two boxes
A key field cannot be left blank	
A key field must have the same value in every column	
Names make better key fields than numbers in a large database	
A key field must be different in every record	
Patients have a right to know their patient number	

(2 marks)

3 (b)	The Gender field has been coded. Give one reason why data is coded.	
		(1 mark)

3 (c) The information displayed on the monitor has already been sorted. Write **one** label in each box to complete the sentence.

Label	
Α	Admission Date
В	ascending
С	random
D	descending
Е	Gender
F	Surname

The records have been sorted into		order on the		field.	(2 marks
-----------------------------------	--	--------------	--	--------	----------



3	(d)	The doctor is searching for patients' information.	
3	(d) (i)	Write down the Surname(s) in the record(s) selected using this search condition.	
		Search Condition: Admission Date is NOT greater than 18/03/10 Surname(s) in the record(s) selected:	
		(1 mark)	
3	(d) (ii)	Write down the Surname(s) in the record(s) selected using this search condition.	
		Search Condition: Gender is F AND Doctor is Parkinson Surname(s) in the record(s) selected:	
		(1 mark)	_

Turn over for the next question



4	(a)	A householder is buying the weekly shopping online and discovers a new website for
		shopping.

The home page is attractively designed with pictures of goods for sale on it. The householder wants to persuade a friend to use this website. The householder could e-mail the home page to the friend or could send an e-mail with a link to the home page in it.

4 (a) (i) Tick one box to show an advantage to the householder in e-mailing the home page.

	Tick one box
When opened, the e-mail shows immediately that the home page is attractive	
The e-mail is automatically virus checked when downloaded	
The e-mail is smaller and will upload and download faster	
The e-mail link is in an attractive font and colour	
The e-mail is larger and will upload and download more slowly	

(1 mark)

4 (a) (ii) Tick **one** box to show an advantage to the householder in sending an e-mail with a link to the home page in it.

	Tick one box
When opened, the e-mail shows immediately that the home page is attractive	
The e-mail is automatically virus checked when downloaded	
The e-mail is smaller and will upload and download faster	
The e-mail link is in an attractive font and colour	
The e-mail is larger and will upload and download more slowly	

(1 mark)

4	(b)	The householder is having difficulty with the new website and needs to contact owners.	t the
		This hyperlink is on the home page: <u>Contact us by e-mail</u> Describe what would happen when the householder clicks on the hyperlink.	
			(2 marks)



4	(c)	Discuss the advantages and disadvantages of shopping online compared with going to the shops.
		(3 marks)

Turn over for the next question



A worker is using a computer controlled cutter to cut a shape out of a sheet of rigid plastic.

These are examples of instructions that control the cutter.

Instruction	What the cutter does
Up	The cutter stops cutting and is raised above the plastic sheet
Down	The cutter moves into the cutting position on the plastic sheet
Move 5	Move forward 5 units. In the down position the plastic sheet will be cut but in the up position the cutter moves over the sheet without cutting it
Left	Turn left 90 degrees
Right	Turn right 90 degrees
To start	Returns the cutter to the starting position

These instructions cut out the shape below. The cutter starts at S and is returned to S.

Up

Move 1

Down

Move 4

Right

Move 3

Right

Move 3

Right

Move 1

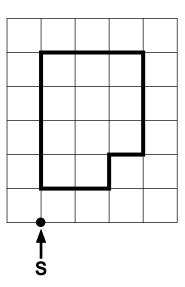
Left

Move 1

Right Move 2

Up

To start





5	(a)	Write the instructions to cut out the shape beloto S.	ow. The cutter starts at S and is returned
		Ś	
			(4 marks

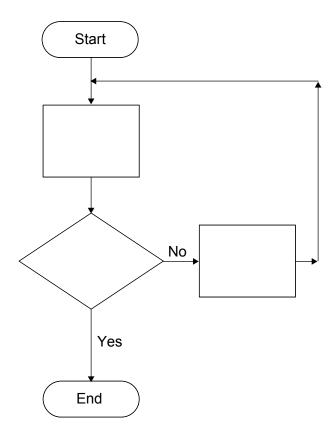
Question 5 continues on the next page



5 (b) The worker writes some instructions to cut out a shape but they do not cut out the shape wanted.

Write the labels of these statements in the flowchart boxes to show a method of developing and testing the instructions.

Label	Statement
Α	Is the shape wanted cut out?
В	Change the instructions
С	Run the instructions



((3	mark	KS,

5	(c)	Describe one advantage to the worker of using a computer controlled cutter.	
		(1 mark)	



- 6 SilverDVD is a company that rents out DVDs to its members. SilverDVD use an ICT system to keep track of DVDs rented to members.
- 6 (a) SilverDVD's employees have user documentation to help them use the ICT system. Employees complain that some of the user documentation is not very good. This is part of the documentation they complain about.

Reports are produc using the report writer feature which is usually in in the report menu. you don't see the report wizard in the report menu may not be installed click select install click on OK and report and click on OK. Data from from archived database files can be included by selecting. Before including fields make sure the field's match in the source archive file with the report.

(a) (i) Tick one box to show why this is not good user documentation.

	Tick one box
The layout helps employees make sense of the documentation	
The documentation is in two columns	
There are spelling mistakes and grammatical errors	
The documentation has a frame round it	
The font is Arial	

6	(a) (ii)	Give one other reason why this is not good user documentation.	(1 mark)
			(1 mark)

Question 6 continues on the next page



6			umentation can be made available as a printed manua	II.	
	(b) (i)	Tick one	box to show other ways documentation can be made	available.	
				Tick one bo)X
		As help	in the software		
		· ·	p3 file saved on a USB memory stick		
		On a ke	•		
		On a we	•		
		In a mod	del		
				(1	1 mark)
			one other way documentation can be made available.		
				(1	1 mark)
_					
6	(c)	SilverDVI	D are going to introduce a new ICT system.		
		task is ca	arrieu out.		
		Label			
		Label	Specification		
		Α	Specification		
		A B	Specification Design		
		A B C	Specification Design Implementation		
6	(c) (i)	A B C D	Specification Design Implementation Testing		1 mark)
6	. ,	A B C D E	Specification Design Implementation Testing Documentation		1 mark) 1 mark)
	(c) (ii)	A B C D E	Specification Design Implementation Testing Documentation rchase the hardware and software to be used	(1	
6	(c) (ii)	A B C D E Task: Put Task: Ch	Specification Design Implementation Testing Documentation rchase the hardware and software to be used eck that the ICT system works	(1	1 mark)
6	(c) (ii)	A B C D E Task: Put Task: Ch	Specification Design Implementation Testing Documentation rchase the hardware and software to be used eck that the ICT system works oduce a flowchart of the new ICT system ate exactly what the new ICT system will	(1	1 mark) 1 mark)



7		A school lib	orary uses an ICT system to keep track of books. The librarian puts ch book.	a bar		
			1234567890			
7	(a)	Give one re	eason why the number is printed under the bar code.			
				(1 mark)		
7	(b)	Using the I	CT system can be difficult and documentation is provided to help use	ers.		
		Write one l	abel in each box to complete the sentences.			
		write one is	abel in each box to complete the sentences.			
		Label				
		Α	parents			
		В	the ICT technician			
		С	the school secretary			
		D	Ofsted			
		E	the librarian			
		F	pupils			
7	(b) (i)	Technical d	documentation could be useful to	(1 mark)		
7	(b) (ii)	User docun	mentation could be helpful to and . (2 marks)		
			Question 7 continues on the next page			



7 (c) (i) Tick two boxes to show reasons to justify the use of an ICT system in the library.

	Tick two boxes
There are 50 books in the school library	
Pupils only have access to the school library in Citizenship lessons	
There are 20 pupils at the school	
There are 2,000 pupils attending the school	
Pupils use the library to look for information to help with their homework	

(2 marks)

7	(c) (ii)	Give one other reason to justify the use of an ICT system in the library.	
		(1 mark)	

7



8		People often use ICT at home and when they relax or do leisure activities.
8	(a)	A wireless home network includes three laptops and a desktop computer, and these can all use the Internet at the same time.
		Draw a labelled diagram of the wireless home network. This should show all essentia

hardware.

(4 marks)

Question 8 continues on the next page



8	(b)	Discuss ways in which the use of ICT extends what people can do and has introduced variety and flexibility into what they do at home, and when they relax or do leisure activities.
		(4 marks)

END OF QUESTIONS

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