| Centre Number |  |  |  |  |  | Candidate Number |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Surname |  |  |  |  |  |  |  |  |  |
| Other Names |  |  |  |  |  |  |  |  |  |
| Candidate Signature |  |  |  |  |  |  |  |  |  |



General Certificate of Secondary Education Foundation Tier June 2010

## Information and <br> Communication Technology (Specification B)(Full Course)

Written Paper

## Monday 21 June $2010 \quad 9.00$ am to 10.30 am

## You will need no other materials. <br> 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 120 .

Answer all questions in the spaces provided.

1 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
AN 12 2 ZZ
01288674765
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.
$\}$ Paragraph A \}Paragraph B

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


B Noble

1 (a) Tick three boxes to show features of word processing software that could be used to improve the letter.

|  | Tick three boxes |
| :--- | :--- |
| Bar chart |  |
| Bold |  |
| Sound |  |
| Font size |  |
| Wizard |  |
| Spell checker |  |

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

| Label | Type of Alignment |
| :--- | :--- |
| A | Left |
| B | Centred |
| C | Right |
| D | Justified |
| E | Horizontal |

1 (b) (i)


1 (b) (ii)


1 (c) The secretary is going to rearrange the letter so that paragraph $A$ is below paragraph $B$. Write the labels in order to show how the secretary could do this.

| Label | Operation |
| :--- | :--- |
| A | paste |
| B | cut |
| C | position the cursor after paragraph B |
| D | highlight paragraph A |


| Label |
| :---: |
|  |
|  |
|  |

1 (d) 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 |  |
| :--- | :--- |
| A | Page layout |
| B | Wizard |
| C | Autoshape |
| D | Template |
| E | Word art |
| F | Text box |

1 (d) (i)

| Feature | Write one label <br> in the box |
| :--- | :--- |
|  |  |

1 (d) (ii)

| Feature | Write one label <br> in the box |
| :--- | :--- | :--- |
| ZoneGem |  |

1 (d) (iii)

| Feature | Write one label <br> in the box |  |  |  |
| :--- | :--- | :--- | :---: | :---: |
| ZoneGem |  |  |  |  |
|  |  |  |  |  |

1 (e) The secretary inserts a picture of the SWgold watch that has been saved on the hard disk. Tick three boxes to show different file types the picture could have.

|  | Tick three boxes |
| :--- | :--- |
| . doc |  |
| .$j p g$ |  |
| .$x \mathrm{ls}$ |  |
| . bmp |  |
| . html |  |
| . gif |  |

1 (f) The secretary sends the letter as an e-mail attachment.
Tick two boxes to show possible security threats.

|  | Tick two boxes |
| :--- | :--- |
| Someone might copy the secretary's signature, pretend to be the <br> secretary and attempt to defraud the company |  |
| Someone might use the secretary's credit cards to buy goods on <br> the web |  |
| Someone might steal the secretary's computer |  |
| Someone might use the secretary's signature to obtain a bus <br> pass |  |
| Someone might read the e-mail, then they would know the <br> SWgold watch is in stock and could steal from them |  |

(2 marks)

2 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.

|  | A | B | C | 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 |  |  |  |
| $£ 1300.00$ |  |  |  |  |
| 9 | Labour costs |  |  |  |
| $£ 500.00$ |  |  |  |  |
| 10 | Total cost of materials and labour |  |  |  |
| $£ 1800.00$ |  |  |  |  |
| 11 | VAT |  |  |  |
| 12 | $£ 270.00$ |  |  |  |

2 (a) Tick one box to show the type of software the plumber has used.

|  | Tick one box |
| :--- | :--- |
| presentation |  |
| e-mail |  |
| graphics |  |
| spreadsheet |  |
| web browser |  |

2 (b) Write one label in each box to show a cell with the feature described.

| Label | Cell |
| :--- | :--- |
| A | A6 |
| B | D8 |
| C | C5 |
| D | D5 |
| E | A0 |

2 (b) (i)

| Feature | Write one label in the box |
| :--- | :--- |
| Cell content is text |  |

(1 mark)

2 (b) (ii)

| Feature | Write one label in the box |
| :--- | :--- |
| Cell content is number |  |

(1 mark)
2 (b) (iii)

| Feature | Write one label in the box |
| :--- | :--- |
| Cell format is currency |  |

2 (b) (iv)

| Feature | Write one label in the box |
| :--- | :--- |
| Cell content is the formula $=\mathrm{B} 5^{*} \mathrm{C} 5$ |  |

2 (b) (v)

| Feature | Write one label in the box |
| :--- | :--- |
| Cell content is the formula $=$ SUM(D2:D7) |  |

2 (c) (i) Tick two boxes to show the advantages to the plumber in using the software.

|  | Tick two boxes |
| :--- | :--- |
| The quotation can be edited to produce a similar quotation for <br> another customer |  |
| The plumber must have access to a computer to produce a <br> quotation |  |
| The plumber can rely on the software to produce accurate <br> calculations |  |
| The plumber must be able to use the software |  |
| The plumber wants to attend college to get more qualifications |  |

(2 marks)
2 (c) (ii) Tick two boxes to show the disadvantages to the plumber in using the software.

|  | Tick two boxes |
| :--- | :--- |
| The quotation can be edited to produce a similar quotation for <br> another customer |  |
| The plumber must have access to a computer to produce a <br> quotation |  |
| The plumber can rely on the software to produce accurate <br> calculations |  |
| The plumber must be able to use the software |  |
| The plumber wants to attend college to get more qualifications |  |

(2 marks)
Question 2 continues on the next page

2 (d) The plumber's employer provides a laptop computer and portable printer. The plumber uses the laptop computer to play online games on the Internet during working hours.

Tick two boxes to show why the plumber should not do this.

|  | Tick two boxes |
| :--- | :--- |
| 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 <br> Internet |  |
| The laptop computer does not have database software |  |
| The plumber's employer has told the plumber that the laptop <br> computer should only be used to help with the plumber's job |  |

(2 marks)
2 (e) The laptop computer has been infected by malicious software downloaded from the Internet.

Tick three boxes to show what could be done to help protect the laptop computer.

|  | Tick three boxes |
| :--- | :--- |
| Encrypt e-mails |  |
| Use antivirus software |  |
| Use a firewall |  |
| Use a burglar alarm |  |
| Only allow access to trusted websites |  |
| Employ a supervisor to make sure the plumber uses the laptop <br> computer only to help with the plumber's job |  |

(3 marks)

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

|  | Patient <br> Number | Surname | Gender | Admission <br> Date | Doctor |
| :--- | :---: | :--- | :---: | :---: | :--- |
|  | 0453 | Jackson | M | $10 / 01 / 2010$ | Parkinson |
|  | 0371 | Bolton | F | $15 / 03 / 2010$ | Parkinson |
|  | 0882 | Walton | R | $20 / 03 / 2010$ | James |
|  | 0061 | Singh | M | $03 / 04 / 2010$ | Aziz |
|  | 0263 | Janiak | F | $07 / 04 / 2010$ | Parkinson |
|  |  |  |  |  |  |

3 (a) Tick one box to show the type of software the doctor would use.

|  | Tick one box |
| :--- | :--- |
| presentation |  |
| database |  |
| graphics |  |
| e-mail |  |
| library |  |

3 (b) State one other field that should be included in a patient's record and give one reason why the doctor would find the field useful.

Field that should be included:
$\qquad$
Reason why the doctor would find the field useful:
$\qquad$
$\qquad$

3 (c) A Gender has been input incorrectly.
Tick one box to show a validation check that would detect this error.

|  | Tick one box |
| :--- | :--- |
| Range check |  |
| Check digit |  |
| Type check for alphanumeric data |  |
| Type check for numeric data |  |
| Table look-up |  |

Question 3 continues on the next page

|  | Patient <br> Number | Surname | Gender | Admission <br> Date | Doctor |
| :--- | :---: | :--- | :---: | :---: | :--- |
|  | 0453 | Jackson | M | $10 / 01 / 2010$ | Parkinson |
|  | 0371 | Bolton | F | $15 / 03 / 2010$ | Parkinson |
|  | 0882 | Walton | R | $20 / 03 / 2010$ | James |
|  | 0061 | Singh | M | $03 / 04 / 2010$ | Aziz |
|  | 0263 | Janiak | F | $07 / 04 / 2010$ | Parkinson |
|  |  |  |  |  |  |

3 (d) 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 (e) Write one label in each box to complete the sentences to show why the Gender field has been coded.

| Label |  |
| :--- | :--- |
| A | input |
| B | control |
| C | answer |
| D | storage |
| E | feedback |

3 (e) (i) Coded information can be faster to $\square$.
3 (e) (ii) Coded information takes up less $\square$ space on the hard disk.

3 (f) The information displayed on the monitor has already been sorted.
Tick one box to show the field the information has been sorted on.

|  | Tick one box |
| :--- | :--- |
| Patient Number |  |
| Surname |  |
| Gender |  |
| Admission Date |  |
| Doctor |  |

3 (g) Write down the patient numbers in the order they would appear after the records have been sorted into descending order on the Patient Number field.

| Patient Number |
| :---: |
|  |
|  |
|  |
|  |

3 (h) The doctor is searching for patients' information.
3 (h) (i) Write down the Surname(s) in the record(s) selected using this search condition.
Search Condition: Surname contains 'Jac'
Surname(s) in the record(s) selected:
$\qquad$

3 (h) (ii) Write down the Surname(s) in the record(s) selected using this search condition.
Search Condition: Admission Date is greater than 01/04/10
Surname(s) in the record(s) selected:
$\qquad$

3 (h) (iii) 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:
$\qquad$

3 (h) (iv) Write down the Surname(s) in the record(s) selected using this search condition.
Search Condition: Admission Date is 10/01/2010 OR Patient Number is 0061
Surname(s) in the record(s) selected:
$\qquad$

4 E-mail is used at work and at home.
4 (a) Tick two boxes to show which of the following could be valid e-mail addresses.

|  | Tick two boxes |
| :--- | :--- |
| yusuf\%20\%.sch.nt |  |
| johnp@electro.sch.uk |  |
| customerservices*shopping.com |  |
| paul@collins@man.ac.uk |  |
| admin@hickleyhealth.co.uk |  |

4 (b) Tick two boxes to show what can be attached to an e-mail.

|  | Tick two boxes |
| :--- | :--- |
| A spreadsheet |  |
| A hard disk |  |
| A .jpg file |  |
| A star network |  |
| A window |  |

4 (c) When you receive an e-mail on a computer, you can reply to it, forward it or delete it.
Tick two boxes to show which of these statements are true.

|  | Tick two boxes |
| :--- | :--- |
| When you reply to an e-mail, the e-mail is automatically <br> addressed to the person who sent it to you |  |
| When you forward an e-mail, you have to enter the e-mail <br> address of the person you are sending it to |  |
| When you forward an e-mail, all attachments are removed |  |
| When you have sent an e-mail, you can never look at it again |  |
| You can receive e-mail that is not addressed to you |  |

(2 marks)
4 (d) Files attached to e-mails can be zipped.
4 (d) (i) Tick one box to show a feature of a zipped file.

|  | Tick one box |
| :--- | :--- |
| A zipped file cannot be saved on a hard disk |  |
| A zipped file is always very small |  |
| A zipped file is always very big |  |
| A zipped file is more secure |  |
| A zipped file is compressed |  |

4 (d) (ii) Write one label in each box to complete the sentence.

| Label |  |
| :--- | :--- |
| A | upload |
| B | edit |
| C | rename |
| D | enter |
| E | download |

A zipped file will $\square$ and $\square$ faster.
4 (e) 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 (e) (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 <br> 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 (e) (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 <br> 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 |  |

4 (f) The householder is having difficulty with the new website and needs to contact the owners.
This hyperlink is on the home page: Contact us by e-mail
Tick two boxes to show what should happen when the householder clicks on the hyperlink.

|  | Tick two boxes |
| :--- | :--- |
| You have to enter the e-mail address of the person you are <br> sending it to |  |
| A search engine is displayed |  |
| The e-mail is automatically addressed to the owners |  |
| You have to fax the help line |  |
| A new e-mail message opens or a blank e-mail form opens |  |

(2 marks)
4 (g) Tick two boxes to show advantages of shopping online compared with going to the shops.

|  | Tick two boxes |
| :--- | :--- |
| You can compare a wider range of goods more easily |  |
| You have a better idea of the quality of the goods you are buying |  |
| You can pay by credit card |  |
| You have to wait for the goods to be delivered |  |
| You have access to the whole product range |  |

(2 marks)

5 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 <br> cut but in the up position the cutter moves over the sheet without <br> cutting it |
| Left | Turn left 90 degrees |
| Right | Turn right 90 degrees |
| To start | Returns the cutter to the starting position |

5 (a) 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


Draw on the grid the shape cut out by the instructions below. You should start at S and return to $S$.

Up
Move 2
Down
Move 2
Right
Move 3
Right
Move 2
Right
Move 3
Up
To start


5 (b) These instructions remove hole $A$. The cutter starts at $S$ and is returned to $S$.

```
Up
Move 5
Right
Move 1
Down
Move 1
Left
Move 1
Left
Move 1
Left
Move 1
Up
To start
```



Write the instructions to remove hole $B$. The cutter starts at $S$ and is returned to $S$.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

5 (c) Write the instructions to cut out the shape below. The cutter starts at $S$ and is returned to S .
$\qquad$

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

5 (d) 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 |
| :--- | :--- |
| A | Is the shape wanted cut out? |
| B | Change the instructions |
| C | Run the instructions |


(3 marks)

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.
This is a diagram of part of their ICT system.


6 (a) SilverDVD produce a report showing the names and e-mail addresses of ex-members so that they can contact them.

6 (a) (i) Some ex-members do not have e-mail. Write one label in the box to complete the sentence.

| Label |  |
| :--- | :--- |
| A | envelopes |
| B | web mail |
| C | mail merge |
| D | presentation software |
| E | a laptop |

If ex-members do not have e-mail, SilverDVD send personalised letters which are
$\square$
6 (a) (ii) Tick three boxes to show other reports that the ICT system could be expected to produce.

|  | Tick three boxes |
| :--- | :--- |
| A list showing the bank balance of each member |  |
| A list of current members |  |
| A list showing which car each member drives |  |
| A list of competitors' sales the previous week |  |
| A list of DVDs that are available to rent |  |
| A list of DVDs that each member has borrowed |  |

6 (b) 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. If 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.

6 (b) (i) Tick three boxes to show why this is not good user documentation.

|  | Tick three boxes |
| :--- | :--- |
| The layout does not help employees make sense of the <br> documentation |  |
| The documentation is in two columns |  |
| The text is too large to read comfortably |  |
| There are spelling mistakes and grammatical errors |  |
| The documentation has a frame round it |  |
| The font is Arial |  |

(3 marks)
6 (b) (ii) Give one other reason why this is not good user documentation.
$\qquad$
$\qquad$

6 (c) User documentation can be made available as a printed manual.
Tick three boxes to show other ways documentation can be made available.

|  | Tick three boxes |
| :--- | :--- |
| As help in the software |  |
| As a .mp3 file saved on a USB memory stick |  |
| On a keyboard |  |
| On a webcam |  |
| On a website |  |
| As a .pdf file saved on a USB memory stick |  |

(3 marks)
6 (d) SilverDVD are going to introduce a new ICT system.
Write one label in each box to show at which stage of the ICT systems life cycle each task is carried out.

| Label |  |
| :--- | :--- |
| A | Specification |
| B | Design |
| C | Implementation |
| D | Testing |
| E | Documentation |

6 (d) (i) Task: Purchase the hardware and software to be used


6 (d) (ii) Task: Check that the ICT system works


6 (d) (iii) Task: Produce a flowchart of the new ICT system $\square$

6 (d) (iv) Task: State exactly what the new ICT system will $\square$ do when it has been produced

7 A school library uses an ICT system to keep track of books. The librarian puts a bar code in each book.


7 (a) Write one label in each box to complete the sentences.

| Label |  |
| :--- | :--- |
| A | pupil |
| B | bar code reader |
| C | book |
| D | word processor |
| E | keyboard |

7 (a) (i) Bar codes can be input faster and more accurately using a $\square$
7 (a) (ii) The librarian can enter the number printed under the bar code using a $\square$ (1 mark)

7 (a) (iii) The bar code identifies the $\square$.
7 (b) Tick two boxes to show why the number is printed under the bar code.

|  | Tick two boxes |
| :--- | :--- |
| If the bar code cannot be read by the ICT system the librarian <br> enters the number |  |
| The ICT system reads the number not the bar code |  |
| Most people cannot read bar codes |  |
| Most people do not read library books |  |
| The number has coded information which is not in the bar code |  |

(2 marks)

7 (c) (i) The condition of a library book is described on the ICT system using a code. This is the code used:

| Code | Condition |
| :--- | :--- |
| N | New |
| G | Good |
| W | Worn |
| U | Unusable |

Tick two boxes to describe this code.

|  | Tick two boxes |
| :--- | :--- |
| The code is information |  |
| The code is data |  |
| The code is qualitative |  |
| The code is quantitative |  |
| The code is too short |  |

7 (c) (ii) A pupil returns a book. The librarian complains that the book is worn but the ICT system shows it was in good condition when the pupil borrowed it. The pupil says it was worn when it was borrowed.

Tick two boxes to show the most likely ways this difference of opinion could happen.

|  | Tick two boxes |
| :--- | :--- |
| The code on the ICT system has not been updated recently |  |
| A hacker has changed the code on the ICT system |  |
| The librarian has changed the code on the ICT system |  |
| Whether the condition of the book is judged as worn or good can <br> vary from one person to another |  |
| The book is overdue |  |

## Question 7 continues on the next page

7 (d) Using the school library ICT system can be difficult and documentation is provided to help users.

Write one label in each box to complete the sentences.

| Label |  |
| :--- | :--- |
| A | parents |
| B | the ICT technician |
| C | the school secretary |
| D | Ofsted |
| E | the librarian |
| F | pupils |

7 (d) (i) Technical documentation could be useful to $\square$
7 (d) (ii) User documentation could be helpful to $\square$ and $\square$
7 (e) Tick three boxes to show reasons to justify the use of an ICT system in the library.

|  | Tick three boxes |
| :--- | :--- |
| There are 50 books in the school library |  |
| The school library has over 50,000 books |  |
| Pupils only have access to the school library in Citizenship <br> 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 <br> homework |  |

(3 marks)

8 People often use ICT at home and when they relax or do leisure activities.
8 (a) TV broadcasting is changing from analogue to digital. There are many sources of TV programmes. For example, programmes can be broadcast over the Internet.

8 (a) (i) Tick two boxes to show the advantages when TV programmes are broadcast over the Internet.

|  | Tick two boxes |
| :--- | :--- |
| You can watch programmes after they have been on TV |  |
| The picture can freeze when you do not want it to |  |
| The sound and the picture may separate |  |
| If you want to watch programmes later, you don't have to record <br> them yourself |  |
| You can watch programmes before they have been on TV |  |

(2 marks)
8 (a) (ii) Tick two boxes to show the disadvantages when TV programmes are broadcast over the Internet.

|  | Tick two boxes |
| :--- | :--- |
| If your Internet Service Provider (ISP) has a download limit, you <br> are more likely to exceed it |  |
| You can watch programmes on your computer |  |
| You have to slow down the Internet so that TV programmes can <br> be shown |  |
| There is too much choice |  |
| If the Internet is too slow, the picture could be jerky |  |

(2 marks)
8 (a) (iii) Tick two boxes to show other sources of TV programmes.

|  | Tick two boxes |
| :--- | :--- |
| Recorded on a floppy disk |  |
| Recorded on a DVD or VHS tape |  |
| Recorded on a scanner |  |
| Recorded on a Hard Disk |  |
| Recorded on a CD |  |

(2 marks)

## Question 8 continues on the next page

8 (b) A wireless home network includes three laptops and a desktop computer, and these can all use the Internet at the same time.

8 (b) (i) Tick two boxes to show the hardware needed so users can access the Internet over the home network.

|  | Tick two boxes |
| :--- | :--- |
| Printer |  |
| Modem |  |
| Webcam |  |
| Router |  |
| Digital camera |  |

8 (b) (ii) Draw a labelled diagram of the wireless home network. You should include three laptops, a desktop computer and the other essential hardware needed so that users can access the Internet.

8 (c) Discuss other ways in which the use of ICT extends what people can do at home, when they relax or do leisure activities.
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$\qquad$
(3 marks)

END OF QUESTIONS

