



General Certificate of Secondary Education
2009

Centre Number

71

Candidate Number

Information and Communication Technology

Short Course

Higher Tier

[G5302]



TUESDAY 19 MAY, AFTERNOON

TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.
Answer **all fourteen** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 140, including a maximum of 7 marks for quality of written communication.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

For Examiner's
use only

Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
QWC	

Total
Marks

(d) Select **one** task that cannot be carried out when banking online.

- A** Depositing money
- B** Ordering a new cheque book
- C** Paying bills
- D** Cancelling direct debits

Answer _____ [1]

(e) Select **one** advantage of storing graphics in bitmap format.

- A** Images are built up in layers
- B** Image quality is good
- C** Images can be edited at pixel level
- D** Images take up very little storage space

Answer _____ [1]

(f) A web browser:

- A** Allows users to enlarge text, cannot be used without being connected to the Internet, allows users to enter URLs.
- B** Allows users to enlarge text, can be used without being connected to the Internet, allows users to enter URLs.
- C** Does not allow users to enlarge text, can be used without being connected to the Internet, allows users to enter URLs.
- D** Does not allow users to enlarge text, cannot be used without being connected to the Internet, does not allow users to enter URLs.

Answer _____ [1]

(g) To perform a mail merge means:

- A** To merge data from a database onto a letter and produce personalised letters.
- B** To merge text from two letters to produce personalised letters.
- C** To use a database to send a personalised letter to a group of people.
- D** To send a personalised letter.

Answer _____ [1]

(h) An ATM:

- A** Is an Automatic Teller Machine and can be used to top up some mobile phones.
- B** Is an Automatic Teller Machine and can be used to open a bank account.
- C** Is an Automatic Technical Machine and can be used to top up some mobile phones.
- D** Is an Automatic Technical Machine and can be used to open a bank account.

Answer _____ [1]

(i) The operating system of a computer:

- A** Is hardware which manages the communication between the user and the computer system.
- B** Is software which manages the communication between the user and the computer system.
- C** Is hardware which creates programs for use by the user and the computer system.
- D** Is software which creates programs for use by the user and the computer system.

Answer _____ [1]

(j) The **csv** file format allows:

- A** A photograph to be stored and imported into a graphics package.
- B** Text to be stored and imported into a database.
- C** Music to be stored and imported into an mp3 player.
- D** Video to be stored and imported into an mp4 player.

Answer _____ [1]

Examiner Only	
Marks	Remark

2 Computers are now used to control many types of systems such as central heating in buildings and traffic light systems. These control systems make use of **sensors** and **feedback loops**. An **interface** is also used to help process the data.

(a) List **one** sensor which could be used in the traffic lights system.

_____ [1]

(b) Explain the purpose of a **sensor** in any control system.

_____ [2]

(c) What is the role of the **interface** in any control system?

_____ [2]

(d) What is the purpose of **feedback** in the central heating control system?

_____ [1]

Examiner Only	
Marks	Remark

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(Questions continue overleaf)

Mark will need hardware and software to connect to the Internet.

- (c) From the list he has written below, select using a tick (✓) the **three** items he will **not require** to access the Internet and web pages.

Equipment	Tick (✓)
Wordprocessor	
Browser	
MODEM	
HTML files	
Broadband link	
Spreadsheet	

[3]

Mark will transfer files onto the Internet.

- (d) List **one** protocol which will support this.

[1]

- (e)** Give **one** piece of advice to Mark to ensure that his website loads quickly when a customer is viewing it.

[1]

Mark decides to sell his products on **DVD** from a stand in the local shopping centre.

- (f) Expand the acronym **DVD**.

[1]

Examiner Only	
Marks	Remark

Examiner Only	
Marks	Remark

(Tick **one** answer **only**)

[1]

(d) (i) What is video conferencing?

[1]

(ii) List **three** other devices which would be required to provide this facility in the office.

1. _____
2. _____
3. _____ [3]

GAMESTATION LTD are developing a driving simulation game for the PC. It has high quality graphics and 14 levels. Players can select from 150 cars.

- (c) What advice would you give players about the **RAM** and **Monitor** on their PC?

RAM: _____

 _____ [2]

Monitor: _____

 _____ [2]

GAMESTATION LTD have decided to make the game available online. Players must fill out the online form below before they can play.

GAMESTATION LTD ONLINE REGISTRATION

First Name	
Surname	
House Number	
Street	
Town	
Postcode	
Date of Birth	
Gender	<input type="radio"/> Male <input type="radio"/> Female
Email	

Examiner Only	
Marks	Remark

Examiner Only	
Marks	Remark

-
- [1]

(ii) State which **two** principles of the law have been broken by GAMESTATION LTD.

1. _____

 2. _____

- [2]

-
- [1]

(iv) Explain the **two** terms in bold.

Data Controller _____

Data Subject _____

[2]

(ii) What is an **Intranet**?

_____ [1]

(iii) Describe **two** ways in which the company could use the Intranet to **benefit employees**.

1. _____

2. _____
_____ [2]

Examiner Only	
Marks	Remark

7 Barry runs a small printing company. He wants to store details about his clients in a database.

- (a) Complete the following paragraph using the words provided.
Use each word only once.

REPORT RECORDS CRITERIA FORMS FIELDS TABLE

Data is stored in tables of _____. Each record is made up of _____. A database package allows users to query data which meet _____. _____ can be used to capture data on screen.

[4]

Examiner Only	
Marks	Remark

Barry wants to store the following details about his clients.

Details	
Title	Mr
Name	Barry Greene
Address	1 Long Road
Postcode	BT56 9II
Phone number	(020)-344-999
Date of first order	12/12/2008
Priority	Yes
Discount Rate	10%

- (b) (i)** Barry wants to sort the table. Suggest a field for **sorting** which will help Barry group deliveries to customers.

[1]

- (ii) How could Barry use the **Discount Rate** field when processing orders?

[1]

- (iii) What feature of a database would Barry use to select all of the **Priority** customers?**

[1]

- (iv) Barry's database does not include a **keyfield**. What is the purpose of a **keyfield**?

[1]

Examiner Only	
Marks	Remark

- 8** “Clarendon Limos” are a small Limousine hire company. They have four cars. Below is part of a spreadsheet with their car hire information for the month of November 2008.

	A	B	C	D	E	F	G
1	Clarendon Limos – Income November 2008						
2	Car	Cost Per Hour	Number of Hours Hired	Total Income	Fuel Cost Per Hour	Total Fuel Cost	Total Profit for each Car
3	Yellow Hummer Vehicle	£ 400.00	35	£ 14 000.00	£ 100.00	£ 3 500.00	£ 10 500.00
4	Stretch Limousine	£ 500.00	19	£ 9 500.00	£ 120.00	£ 2 280.00	£ 7 220.00
5	Stretch Hummer Vehicle	£ 550.00	9	£ 4 950.00	£ 115.00	£ 1 035.00	£ 3 915.00
6	Pink Cadillac	£ 700.00	10	£ 7 000.00	£ 140.00	£ 1 400.00	£ 5 600.00
7							
8	Total Profit						£ 27 235.00

- (a) Cells **A8:F8** have been: (*circle the correct answer from the list below*)

Cleared **Merged** **Pasted** **Deleted** [1]

- (b)** Using cell references, write down the **formula** used in each of the following cells.

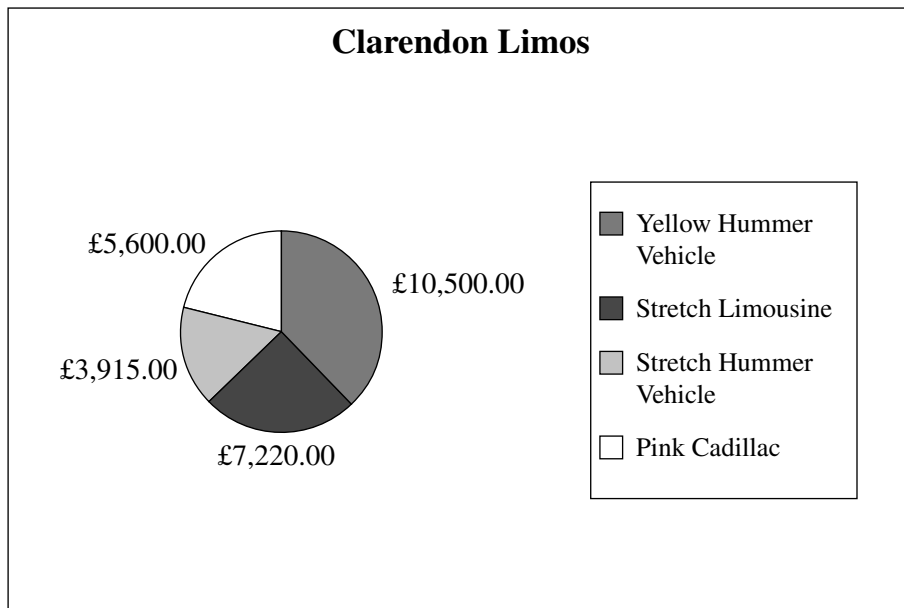
(i) **D6** _____ [1]

(ii) G6 _____ [1]

(iii) G8 _____ [1]

Examiner Only	
Marks	Remark

(c) The chart below has been produced from the spreadsheet data.



- (i) List the **cell references** of the two cell ranges used to produce this chart.

Cell range 1: _____

Cell range 2: _____[2]

- (ii) Give **one** advantage to Clarendon Limos of viewing information in chart form.

[1]

- (iii) Give one piece of information that Clarendon Limos can see by examining the chart.**

[1]

- (iv) Apart from using colour, suggest **one** way in which the chart could be improved.

[1]

Examiner Only	
Marks	Remark

9 Arlene is word processing her Chemistry coursework.

She wishes to include her candidate number in a header and page numbers in a **footer**.

(a) What is a **footer**?

[1]

After she has added her **page numbers** to the document she goes into the page setup and selects an option for different first page headers and footers.

(b) Give **one** reason why she might do this.

[1]

Arlene has copied a graphic from the Internet. When it is clicked she is automatically taken to the original website.

(c) What must she do to prevent this from happening?

[1]

When she runs the spellchecker, it highlights a lot of words that Arlene knows are spelt correctly.

(d) Give **one** reason why the spellchecker might still highlight these.

[1]

(e) Give **one** example when the spellchecker may **not highlight** a word when it is spelt incorrectly.

[1]

Examiner Only	
Marks	Remark

10 SunShine Properties sell houses all around the world. One of their employees wants to send an email to their manager at manager@sunshineproperties.co.uk.

(a) Read and complete the following email to the manager so that:

- (i) The employee is sending the email to the correct person and [1]
- (ii) The person receiving the email knows what it relates to before they open it [1]

Send [icon] Importance Normal [v] Options None [v] [icon] [icon] X Close [icon] Help

Attachments can contain viruses that may harm your computer. Attachments may not display correctly.

To: [text box]

Cc: [text box]

Bcc: [text box]

Subject: [text box]

Attachments: IMG_0203.jpg(833KB) IMG_0204.jpg(1MB)

Dear Mr S Shine

Please find attached a copy of the images for the Marbella mansion that has just been put up for sale by Mr and Mrs N.O. Reain.

Sally Sailes

The warning shown on the email tells the employee that **Attachments may not display correctly.**

- (b)** Give **one** reason why attachments may not display correctly when they are opened by the recipient.

[1]

The agent needs to send a copy of the email to Mr and Mrs Reain and the manager. The agent does not want Mr and Mrs Reain to see the email address for their manager.

- (c) Write the manager's address in the correct place in the section of the email shown below.

To:	nreain@hotmail.com
Cc:	
Bcc:	
Subject:	

[1]

- (d) The employee wants to know when the email has been opened, but does not know whether she should select "Read receipt requested" or "Delivery receipt requested".

Send		Importance	Normal	Options	None	Close	Help
To:	nreain@hotmail.com				None		
Cc:					Read receipt requested		
Bcc:					Delivery receipt requested		
					Request Both		

- (i) Explain the difference between the two options.

[2]

- (ii) State which option she should select so that she knows that the email has been opened.

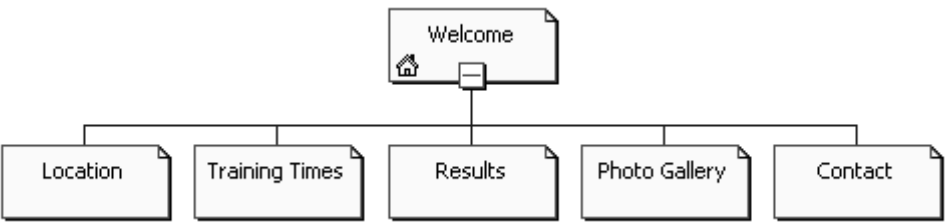
[1]

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Marks Remark

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12 June designed a website for her son’s sports club. The site she created has the following pages:



June is not sure what format she should use when she is saving the web pages.

(a) Tick (✓) **one** option below that is **not** an appropriate file format to use when saving web pages.

File Format	Tick (✓)
.htm	
.http	
.html	

[1]

When she has completed the website she tests it on **one** web browser only.

(b) Why is this not a good idea?

[1]

Examiner Only	
Marks	Remark

