

71
Candidate Num

General Certificate of Secondary Education 2009

Information and Communication Technology

Full Course

Paper 1

Foundation Tier

[G5801]

TUESDAY 19 MAY, AFTERNOON



TIME

1 hour.

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 100, including a maximum of 5 marks for the 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.

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

Total Marks

Answer all fourteen questions

Examiner Only				
Marks	Remark			

For question 1 insert the appropriate letter in the space provided.

(a)		ect the most appropriate input device for free-hand drawing on a phics package.
	A	Mouse
	В	Keyboard
	C	Light Pen
	D	Hand-held Scanner
		Answer [1]
(b)		ect the most appropriate output device for creating a hard copy of eceipt at a supermarket till.
	A	Printer
	В	LCD
	C	Plotter
	D	VDU
		Answer [1]
(c)		ect the most appropriate storage device for storing pictures on a bile phone.
	A	SIM Card
	В	Network Card
	C	Memory Card
	D	Graphics Card
		Answer [1]

(d)	Sel	ect one task that cannot be carried out when banking online.	Examin Marks	er Only Remark
	A	Depositing money		
	В	Ordering a new cheque book		
	C	Paying bills		
	D	Cancelling direct debits		
		Answer [1]		
(e)	Sel	ect one advantage of storing graphics in bitmap format.		
	A	Images are built up in layers		
	В	Image quality is good		
	C	Images can be edited at pixel level		
	D	Images take up very little storage space		
		Answer [1]		
(f)	Av	veb browser:		
	A	Allows users to enlarge text, cannot be used without being connected to the Internet		
	В	Allows users to enlarge text, can be used without being connected to the Internet		
	C	Does not allow users to enlarge text, allows users to enter URLs		
	D	Does not allow users to enlarge text, does not allow users to enter URLs		
		Answer [1]		

(g)	10	perform a man merge means:	Marks	Remark
	A	To merge data from a database onto a letter and produce personalised letters		
	В	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		
	В	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	e operating system of a computer:		
	A	Is hardware which helps to manage the computer system		
	В	Is software which helps to manage the computer system		
	C	Is hardware which creates programs for use by the computer system		
	D	Is software which creates programs for use by the computer system		
		Answer [1]		

(j)	A c	esv file is a:		Examin Marks	er Only Remark
	A	completely separated variable file			
	В	comma separated variable file			
	C	comma sequenced variable file			
	D	completely sequenced variable file			
			Answer [1]		

a) From t	he table below, tick	(✓) two sensors wh	nich could be us	ed in the
traffic	light system.			
	Sensor	Tick	(✓)	
	Heat			
	Light			
	Pressure			
	Motion			[2]
				[2]
		ishes to use a comp	ıter to help him	
raining ma (a) From t	iterial. he list below, select	ishes to use a compute the most appropri cing to produce. (Use o	ate file format f	to create
raining ma a) From t output	iterial. he list below, select	the most appropri	ate file format f	to create

Output	File Format
Printed copies of instructions on how to play his music	
Sound files of him playing his music	
Images of the instruments he teaches	

[3]

	ive two advantages to Mark to en	ncourage him to do this.	
1.			
_			
2.			
			[2]
Fı	will need equipment to connect to com the list he has written below, ems he will require to connect to	select using a tick (), the the Internet.	two
	Equipment	Tick (✓)	
	Word processor		
	Browser		
	MODEM		
	Telecommunications link		[2]
.1 _z	decides to sell his products on D ing centre.		[1]
ppi	hat do the letters DVD stand for		
ppi	hat do the letters DVD stand for		
ppi	hat do the letters DVD stand for		
ppi	hat do the letters DVD stand for		
ppi	hat do the letters DVD stand for		

(a)	(i)	What do the letters LAN stand for?	
		[1]	
	(ii)	Give one advantage of having a network in the solicitors' office.	
		[1]	
	(iii)	Give one disadvantage of having a network in the office.	
		[1]	
(b)		e solicitors are going to set up a video conference with another ce in France.	
	(i)	What is video conferencing ?	
		[1]	
	(ii)	List three devices which would be required to provide video conferencing in the office.	
		1.	
		3[3]	
	(iii)	Give one advantage to the solicitors of using video conferencing instead of a telephone to talk to solicitors in other countries.	

The	company have had a fax machine for many years.	I	Examine Marks	er Only Remark
(iv)	Give one disadvantage of using a fax machine instead of email.			
	[:	1]		
(v)	Give one use for the fax machine where email is unlikely to be used i the solicitors' office.	n		
	[1]		

(u)	can	ompany, GAMESTATION LTD, which develops games softwan not find people with the correct skills in the local area. They had ded to offer teleworking contracts.		Examine Marks
	(i)	What is teleworking ?		
			 [2]	
	(ii)	Give two advantages to the company of using teleworking.		
			 [2]	

GA! the		STATION LTD are developing a driving simulation game for	Examin Marks	er Only Remark	
(b)	A lo	ot of RAM and a high resolution monitor is needed to run the new ne.			
	(i)	What do the letters RAM stand for?			
		[1]			
	(ii)	What does high resolution mean when referring to the monitor?			
		[1]			
		MESTATION LTD have decided to make the game available ine. Players must fill out the online form below.			
		GAMESTATION LTD ONLINE REGISTRATION			
		First Name			
		Surname			
		House Number			
		Street			
		Town			
		Postcode			
		Date of Birth			
		Gender			
		Submit			
(c)		ich law must GAMESTATION LTD uphold when managing sonal data?			
		[1]			

6	(a)		iday Villa Hotels allow reservations to be made or telephone, or by faxing the central reservations.	nline, by emai	il,	Examin Marks	er Only Remark
		Hol	Holiday Villa Hotels give special offers online.				
		(i)	Give one other advantage to the customer of boonline.	oking a hotel			
					_[1]		
		(ii)	State one reason why a customer may still choos telephone.	e to book by			
					_[1]		
	the	com	as using the (World Wide Web) WWW and Interrpany provide an Intranet for employees. From the table below tick () which two of the f statements are true about the WWW and the Interval.	ollowing	ss,		
			Statement	Tick (✓)			
			The WWW is the information stored on the Internet				
			The Internet is a set of web addresses				
			The Internet is a network of computers and communication links				
			The WWW is a set of web addresses		[2]		
		(ii)	What is an Intranet ?				
					[1]		

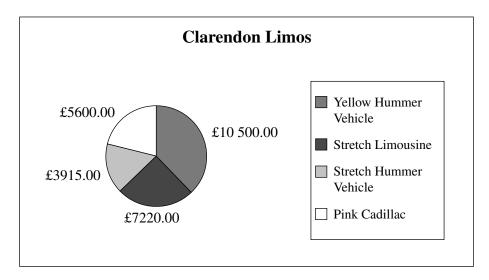
٥)	Commlete 41.	following	mamb 41	rrondo masside d	
a)	Use each wor		raph using the	words provided.	
		RECORDS	FORMS	FIELDS	
	Data is stored	in tables of		Each record is made	e
	up of	·		can be used to	
	capture data o	on screen.			[3]
b)	List two feature business with		e which Barry	could use to provide h	is
	1				
	2				_[2]

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

	А	В	С	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	£14000.00	£ 100.00	£3500.00	£10500.00	
4	Stretch Limousine	£ 500.00	19	£ 9500.00	£ 120.00	£2280.00	£ 7220.00	
5	Stretch Hummer Vehicle	£ 550.00	9	£ 4950.00	£ 115.00	£1035.00	£ 3915.00	
6	Pink Cadillac	£ 700.00	10	£ 7000.00	£ 140.00	£1400.00	£ 5600.00	
7								
8						Total Profit	£27235.00	

(a) Cells A8:F8	have been: (circle the cor	rect answer from		xaminer Only arks Remark
	Cleared	Merged	Pasted	[1]	
(b) Using cell refollowing ce		ite down the f	f ormula used in	each of the	
(i) D6				[1]	
(ii) G6				[1]	
The Cost Per Ho £600.00.	our for the S	tretch Limous	sine has been ch	anged to	
(c) List three of	ther cells that	change as a	result of this.		
1					
2					
3				[3]	

The chart below has been produced from the spreadsheet data.



(d)	(i)	What type	of chart	is	this
------------	------------	-----------	----------	----	------

_____[1]

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

Cell range 1: _____

Cell range 2: ______[2]

(iii) Name one other chart type which can be produced using data from cells on a spreadsheet.

_____[1]

(iv) Give one advantage to Clarendon Limos of viewing information in chart form.

_____[1]

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

_____[1]

Arlene is word processing her Chemistry coursework.	Examin	
She wishes to include her candidate number in a header and page numbers in a footer .	Marks	Remark
(a) What is a footer?		
[1]		
After she has added her page numbers to the document she chooses to look at a print preview of the document.		
(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) Why does this happen?		
[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]		

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(Questions continue overleaf)

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

Examir	ner Only
Marks	Remark

- (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 📙	🛮 🖟 🌡 🞝 Importance Normal 💌 Options None	▼ 🍱 造 🗙 Close ② Help					
⚠ Attachme	A Attachments can contain viruses that may harm your computer. Attachments may not display correctly.						
To:							
Cc:							
Bec:							
Subject:							
Attachments:	☐ IMG_0203.jpg(833KB) ☐ IMG_0204.jpg(1MB)						
sale by M	nd attached a copy of the images for the M r and Mrs N.O. Reain.	arbella mansion that has just been put up for					
Sally Sai	les						

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.

Examin	er Only
Marks	Remark

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

Examin	Examiner Only		
Marks	Remark		

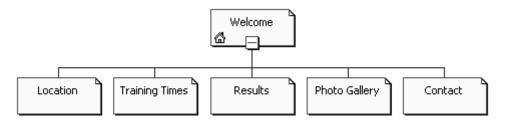
(c) Write the manager's address into the correct place in the section of the email shown below. [1]

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

	•	_	vords below to help each word only once)
beep	database d	escription	scanner	
Barcodes on p	products are read by	y a		[1]
The barcode i	s used to search a		for the item	. [1]
When the pro-	duct is found a		is output.	[1]
The price and		are added to	an itemised receipt.	[1]
<i>2.</i>				_ [^]

12 June is designing 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]

June wants to add video footage of a training session to the Welcome Page of the website.

(b) Give one disadvantage of adding videos to a web page.

		F4

13 Page orientation can be portrait or landscape.

(a) The page orientation of the calendar below is (*circle the correct answer from the words below*):

PORTRAIT LANDSCAPE [1]



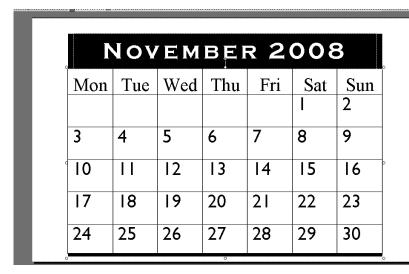
(b) State **two** features available within Desktop Publisher which will make it easier for users to produce publications like this.

1.

2. _____[2]

(c) The page orientation of the calendar below is (*circle the correct answer from the words below*):

PORTRAIT LANDSCAPE [1]



(d) (i) The title **NOVEMBER 2008** on the calendar below has been (circle the correct answer from the words below):

Examiner Only

Marks Remark

CENTRED LEFT JUSTIFIED RIGHT JUSTIFIED [1]

	Vov	'EM	BEI	R 2	008	3
Mon	Tue	Wed	Thu	Fri	Sat	Sun 2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

(ii) Look at the table below. Tick (✓) the **two** features which have been included on the calendar above.

Feature	Tick (✓)
Right Justify	
Underline	
Table	
Left Justify	
Italics	

[2]

14 Using the terms in the list below, choose **one** term that best matches the definition in the left-hand column (not all words in the list will be used).

Examiner Only Marks Remark

Virus Protocol CD-Rom Encryption Bandwidth Resolution Check Digit Scanner Digital ISP

Definition	Term
A program designed to damage a computer system.	
A digit added to the beginning or end of a number to verify that the number entered is an authentic code.	
A way of encoding data before transmitting it on a network.	
A company which provides the user with a connection to the Internet.	
A measure of the quality of an image.	
A device used to capture data by passing light over the image.	
An optical storage device.	
A measure of the amount of data which can travel along a communication cable.	
A set of rules used for communicating over networks.	
A name used to describe data held as 1s and 0s.	
	[10]

Quality of written communication

