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General Certificate of Secondary Education 2010

Information and Communication Technology

Short Course

Foundation Tier



[G5301]

MONDAY 21 JUNE, MORNING

MONDAI 21 JUNE, MORNING

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.

Complete in blue or black ink only. **Do not write in pencil or with a gel pen**. Answer **all fourteen** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 100, including a maximum of 5 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	

6269 Examiner Number

(jun10G5301)

Answer all fourteen questions Examiner Only For question 1 insert the appropriate letter in the space provided 1 (a) Computer technology allows us to create virtual worlds for gaming and training. Which of the following is **NOT** a feature of a virtual world? Online and interactive Online and batch processed Online and real-time \mathbf{C} D Online and computer based Answer [1] **(b)** Which of the following correctly describes what the boot-up program on a computer does? It carries out hardware checks and loads the operating system into the hard disc from main memory B It carries out hardware checks and loads the operating system into cache memory from the hard disc \mathbf{C} It carries out hardware checks and loads the operating system into the hard disc from cache memory It carries out hardware checks and loads the operating system into D main memory from the hard disc Answer _____[1] 6269

(c)	Wh	nich of the following statements about <i>teleworking</i> is NOT true?	Examiner Only Marks Remark
	A	Teleworking cuts down on company overheads	
	В	Teleworking means more travelling for employees	
	C	Teleworking requires employees to make use of technology	
	D	Teleworking allows companies to employ people from a wider geographic area	
		Answer [1]	
(d)	Wh	nich of the following is NOT provided by a typical EPOS system?	
	A	Automatic tracking of stock	
	В	Bar code reading	
	C	Itemised receipt	
	D	Immediate transfer of funds	
		Answer [1]	
(e)		lect the memory chip used to store control programs in electronic vices in the home.	
	A	Cache	
	В	ROM	
	C	Main	
	D	RAM	
		Answer [1]	
269			[Turn over

(f)	Wh	ich statement is TRUE about The Data Protection Act?	Examiner Marks F	Only
	A	Allows data subjects to view all data held about them and other people in a file		
	В	Allows data subjects to view all data held about them and have corrected if it is incorrect	it	
	C	Does not allow all data subjects to view all data held about themselves		
	D	Does not allow data subjects to have data corrected if it is incorrect		
		Answer	[1]	
(g)	Aco	cording to The Data Protection Act, the data controller		
	A	Ensures that data is not transferred		
	В	Ensures that data is not accessed by data subjects		
	C	Ensures that data is stored securely		
	D	Ensures that data is accessed by all data subjects		
		Answer	[1]	
(h)	Mu	ltimedia presentation software allows		
	A	The use of slide masters and efficient numeric calculation		
	В	The use of slide masters and the storage of records		
	C	The storage of records and the inclusion of navigation buttons		
	D	The inclusion of sound and navigation buttons		
		Answer	[1]	

(04)

(i)	Wh	nich of the following is a magnetic storage device?	Examin Marks	er Only Remark
	A	CD-R		
	В	DVD-RW		
	C	Flash Memory Stick		
	D	External Hard Drive		
		Answer [1]		
(j)	As	simulation is a		
	A	graphic which has been edited		
	В	spreadsheet which returns correct results		
	C	computer program used to model a real life situation		
	D	database which contains reports		
		Answer [1]		
			Total Qu	estion 1
			[T	
6269			lıur	n over

2		drew has a photography business. He has bought word processing tware for his computer.	Examin Marks	er Only Remark
	(a)	He will use a template to create a brochure advertising his company. What is a template?		
	(b)	The template will allow Andrew to produce the brochure very quickly. List ONE other advantage to Andrew of using a template to create a brochure.		
6269)			

(06)

Mailmerge Uses a database Provides step by step instructions Helps users complete tasks Requires fields to be added to the main document Allows users to add new words Helps ensure spelling is correct Wizard Uses a database Provides step by step instructions Helps users complete tasks Requires fields to be added to the main document Allows users to add new words Helps ensure spelling is correct Dictionary Uses a database Provides step by step instructions Helps users complete tasks Requires fields to be added to the main document Allows users to add new words Helps users complete tasks Requires fields to be added to the main document Allows users to add new words Helps ensure spelling is correct	Features	Description			
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Helps users complete tasks Requires fields to be added to the main document Allows users to add new words	Dictionary	Uses a database			
Requires fields to be added to the main document Allows users to add new words		Provides step by step instructions			
Allows users to add new words		Helps users complete tasks			
		Requires fields to be added to the main document			
Helps ensure spelling is correct		Allows users to add new words			
		Helps ensure spelling is correct		Total Qu	uestio

3	the	bert is carrying out a so weather temperature in iod.				Exami Marks	ner Only Remark
	(a)	Robert's science teach sentence using the following the following the following the following the sentence using the sentence u					
		TEMPERATURE	SENSOR	INTERVAL	CAPTURE		
		Data logging involves	the use of a _	to _			
		data. The time taken b	etween each re	eading is called the	e data logging		
		In t	his case a	sensor	would be		
		appropriate.			[4]	
						Total Q	uestion 3
6269)						

(80)

	num to use her new camera.			
_			[1]	
	The camera has a touch screen for changing set tatements which are true about touch screen to]) TWO	
	Statement	Tick (□)]	
	Most touch screens show blurry images.			
	A touch screen can be used as an input device.			
	A touch screen requires a high level of ICT knowledge to use.			
	A touch screen can be used as an output device.			
			[2]	
C	Owen's digital television is <i>interactive</i> . List TW an make use of this feature .			
1				
2	·			

(09)

		has been given old photographs. Suggest ONE method for getting se onto the computer.	g
		[]	1]
(b)		anor is using photographs taken by a local photographer 15 years. If she does not seek his permission what law is she breaking?	
		[2	2]
(c)		ilst creating the "50 Years Ago" page, Eleanor's computer breaks vn. She discovers that the computer has become infected with a 18 .	
	(i)	What is a virus ?	
		[2	2]
	(ii)	List TWO things Eleanor could have done to prevent the virus infection.	
		1	_
		2	_
		[2	2]

6		IAZINGBOOKS.COM is an online bookshop. Books ine and delivered to customers' homes.	can be ordere	ed	Examiner Only Marks Remark
	(a)	Mary has ordered a book and paid by credit card. Give advantage to Mary of shopping online.	ve ONE		
				[1]	
	(b)	John has ordered a book for download to his iPhone. advantage of ordering a book for download instead opost.)	
				[1]	
	(c)	Give ONE reason why a password would be necessal customer is logging on to their account at AMAZING		M.	
				[1]	
	(d)	The website manager has decided to try to prevent hat ONE statement which is true about hacking.	acking. Tick (□)	
		Statement	Tick (□)		
	H	Hacking involves placing data on the Internet			
	I	Hacking involves unauthorised access to the system			
	H	Hacking breaks the Data Protection Act			
				[1]	Total Question 6
					Total Question o
6269					[Turn over

7 Niamh is a GCSE student. She has created the following files and folders for her GCSE coursework.















database

Blue hills

currency

GCSE Full ICT First Edit

CSE Full Assignment 1 Assignment 2 Assignment 3

(a) In the table below, circle the statement which is correct. The first one has been done for you.

Filename		Statement								
Assignment 1	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder					
Assignment 2	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder					
Assignment 3	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder					
database	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder					

[3]

Examin	er Only
Marks	Remark

(b)		mh has been told by her teacher to make a backup of the rsework folder.	Examin Marks	ner Only Remark
	(i)	What is a backup ?		
		[1]		
	(ii)	Why should Niamh keep a backup?		
		[1]		
	(iii)	Niamh chooses CD-R to make her backup. List ONE feature of CD-R which makes it suitable for backup.		
		[1]		
			Total Qu	iestion 7
6269			[Tur	n over

(13)

8	Hap	ppy Days B	ank provide their cus	tomers with:		Examin Marks	ner Only Remark
	•	Debit and Online ba	Credit cards inking				
	(a)		and credit cards contage f a smart chip.	ain smart chip techn	ology. List TWO		
		1					
		2			[2]		
	(b)		and credit cards also es below which conta stripes.	_	*		
m		tic stripe read by	Data on a magnetic stripe can be damaged by magnetic fields	Magnetic stripes can hold very large quantities of data	magnetic stripe		
i		;	!!:!	:	[2]		
	(c)	Some cust	comers make use of the	ne online banking fac	cility and ATM.		
		(i) What	do the letters ATM s	tand for?			
					[1]		
		(ii) List T	WO features availab	le for customers at a	n ATM.		
		1					
		2				Total Qu	aestion 8
					[2]		
6269							



(a) What do the let	tters WAN stand for?
	o go online. Tick ([]) ONE statement which best e needs each of the following items.
Item	Statement
Search Engine	To upload and download files
	To display webpages
	To find webpages
	To get connected to the Internet
	To allow data transfer from his PC to the Internet
Web Browser	To upload and download files
	To display webpages
	To find webpages
	To get connected to the Internet
	To allow data transfer from his PC to the Internet
Celecommunications	To upload and download files
ink	To display webpages
	To find webpages
	To get connected to the Internet
	To allow data transfer from his PC to the Internet
	[3]

Tick (□) TWO functions that an ISP would norm	[1]	
Tick (□) TWO functions that an ISP would norm		
	nally provide.	
An ISP would	Tick (□)	
Install software for the user		
Provide an e-mail service		
Provide different bandwidth options		
Maintain the user's PC		
	[2]	
		Total Question
	Provide an e-mail service Provide different bandwidth options	Install software for the user Provide an e-mail service Provide different bandwidth options Maintain the user's PC

(17)

10		are a computer company. They have a website. The website me company is www.pcglobe.com Marks	r Only Remark
	(a) What do	the letters www in the website address stand for?	
	(b) Below is hyperlin	a page containing contact details. This page contains ks .	
Г		PC GLOBE	
┢		Welcome to PC GLOBE	
	Home		
	About Us	Our Mission To meet the needs of all our customers and provide an efficient service	
	Product List	Contact Information	
L	Calendar	— Telephone 028 990 300001	
Т	Employee List	Fax 028 990 300000	
Т		Postal Address	
Т		38 Long Road, Newtonards, Belfast	
Т		Email	
Т		General Information <u>Margaret@pcglobe.com</u> Sales <u>Robert@pcglobe.com</u>	
Т			
Т			
Т			
L			
	(i) Wha	t is a hyperlink ?	
		[1]	
	, ,	ONE piece of information on the webpage shown which is y to be a hyperlink. Total Que	estion 10
		[1]	
6269		[+]	

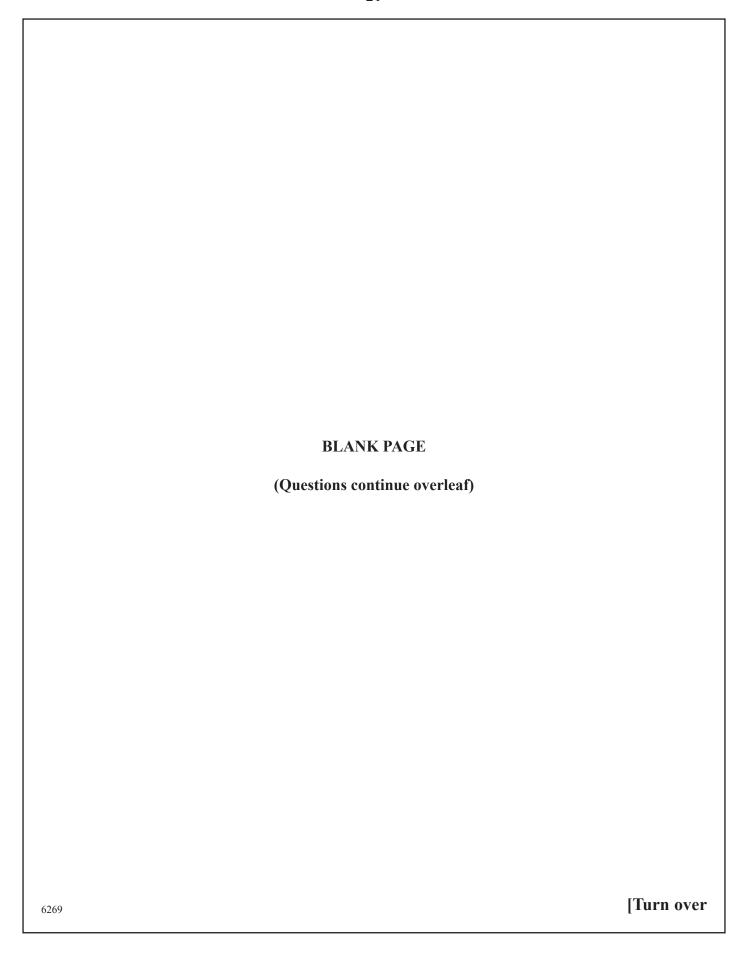


(19)

11 David is setting up a small printing company. He stores details of his customers and their orders in a database, part of which can be seen below.

Order ID	Forename	Surname	Street	Town	Postcode	Order Description	Price	Date Placed	Completion Date	Collected
BRO01	Peter	Brown	22 Highways	Larne	BT56 8UJ	200 Wedding Invites	£100.00	21/03/10	21/04/10	Yes
FOR02	Clarke	Forest	12 Shrewsbury Road	Larne	BT56 8KO	500 Business Cards	£150.00	23/03/10	05/04/10	No
MON08	Aislinn	Mone	45 Heather Way	Belfast	BT5 8MN	50 Party Invites	£25.00	12/04/10	20/04/10	Yes
ARN04	Jane	Arnold	2 The Gardens	Newry	BT34 8AS	40 Thank You Cards	£20.00	12/04/10	15/05/10	No
GRA05	Norman	Grant	16 Grinan Road	Belfast	BT6 2RF	100 Business Cards	£40.00	19/04/10	20/05/10	Yes

(a)	Highlight ONE record in the table above.	[1]	Examiner Only Marks Remark
(b)	How many fields are there in the table above?		
(c)	Suggest a suitable data type for each of the following fields.	_ [1]	
(c)	(i) Order ID		
		[1]	
	(ii) Collected	[1]	
(d)	David wants to find all customers who placed orders over £80.		
	Which feature of the database software would he use to do this?	[1]	
			Total Question 11



(21)

12 RW Hairdresser Supplies sell electrical equipment. The manager creates a spreadsheet to calculate the profit from the sales in the store each month. An example for May 2010 is included below.

	A	В	С	D	E	F	G
1							
2		RW	Hairdresser	Supplie	es		
3	DATE	1st–31st May					
4							
5	Stock No	Description	Price	Quantity Sold	Sales Total	Percentage Profit	Profit (£)
6	CC01	Deep Conditioner	£4.00	200	£800.00	10%	£80.00
7	CC02	Blonde Shampoo	£5.00	500	£2,500.00	25%	£625.00
8	CC03	Heated Rollers	£41.00	150	£6,150.00	25%	£1,537.50
9	KE03	GHD Straighteners	£99.00	100	£9,900.00	15%	£1,485.00
10	TO67	RM Straighteners	£54.00	55	£2,970.00	15%	£445.50
11	TV14	IconicRW Hair Gel	£6.00	450	£2,700.00	25%	£675.00
12	TV35	IconicRW Mousse	£4.99	200	£998.00	30%	£299.40
13	DP01	IconicRW Hairspray	£4.99	300	£1,497.00	25%	£374.25
14	BR01	GHD Curling Irons	£75.00	50	£3,750.00	20%	£750.00
15	EC10	Vent Hairbrush	£7.99	100	£799.00	10%	£79.90
16	DI23	Round Curling Brush	£8.99	25	£224.75	25%	£56.19
17				Total	£32,288.75		£6,407.74

(a)	The text in Row 2 has been centred.	State ONE	other w	vay in	which	the
	cells in Row 2 have been formatted.					

[1]

(b) How has the Price column been formatted?

_____[1]

[1]

Examiner Only

Marks Remark

(c)	The manager has used a formula to calculate the profit for the Vent
	Hairbrush . Tick (□) the correct formula used.

Formula	Tick (□)
=E15*F15	
=E15+F15	
=C15*D15	

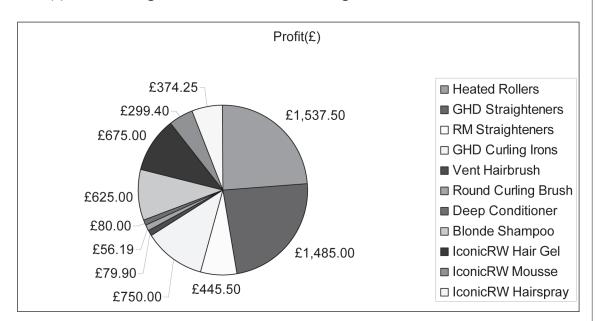
[1]

Examiner Only

(d) Write down the cell reference for the total sales figure for May.

[1]

(e) The manager has created the following chart.



(i)	Give the cel	l references	of the cell	ranges us	sed to	create the	graph
` '							0

_____ L____

(ii) Which item has made the most profit?

[1]		

6269

Turn over

Total Question 12

13 Using the terms in the list below choose **ONE** term that best matches the definition in the left-hand column. (*Use each term only once.*)

BLIND CARBON COPY GRAPHICAL USER INTERFACE LASER PRINTER VIDEO CONFERENCING BITMAP CD-ROM FACSIMILE COMPRESSION WEB FILTERING UPLOADING

Definition	Term
Software which includes windows, icons, menus and pointers	
A device which allows the electronic transmission of paper documents	
Communicating across a network using sound and images	
A method of making a file smaller in size	
A method used to prevent websites and webpages from being accessed	
Sending an e-mail to recipients when they can only see their own details and not those of other recipients	
An output device which uses toner to place images on paper	
A storage medium which can only be read from	
A picture file which has not been optimised for use on the Internet	
A method of placing files on the Internet	
	[10]

Total Question 13

Examiner Only



(25)

14 Anthony runs "Electronic Supermarket" and is creating a letterhead for his business.

Examin	er Only
Marks	Remark

Here is the original image Anthony used.

Flip



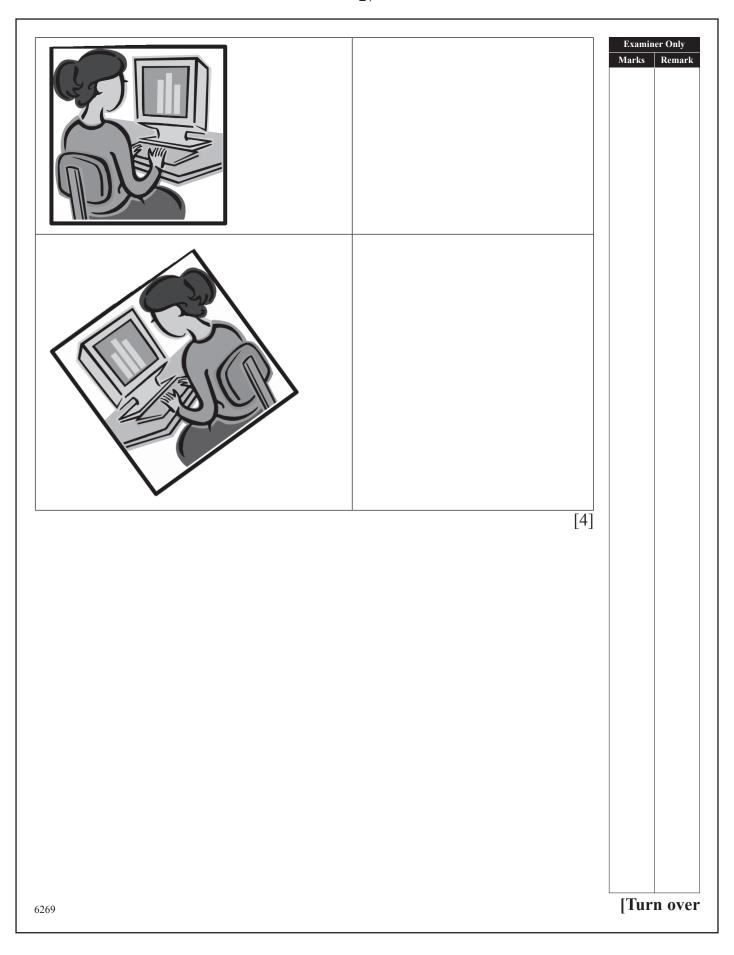
(a) Look at the images below and select **one** word **from the list** which best describes what effect has been applied to the image in each case. (Use each word only once.)

Crop

Rotate

Resize

Image	Effect



(27)

(b)	Anthony has bought notebook computers for his employees who
	travel around Northern Ireland. Here is part of the specification of the
	computer.

Memory Size	3 GB
Hard Drive Capacity	250 GB
CD/DVD Drive	One
Screen Size/Type	11.6"
TV-out	YES
Wireless Enabled	YES
Battery life (up to)	8 hours
Weight	1.58 kg



Examiner Only

@~iStock photo/Think stock

Which feature would be most suitable for doing each of the following tasks. Tick ([]) one in each row.

Task	TV-Out	Hard Disk	Optical Drive	Wireless Enabled
Connecting to the wireless network				
Installing new software				
Connecting to a TV				
Storing coursework files				

[4]

	arou	y are each of the following useful to the employees who travel and Northern Ireland?		Examir Marks	Remark
	(i)	Battery life (up to) 8 hours.			
			[1]		
	(ii)	Weight 1.58 kg.			
			[1]		
_	THI	S IS THE END OF THE QUESTION PAPER			
	тні	S IS THE END OF THE QUESTION PAPER			
-	ТНІ	S IS THE END OF THE QUESTION PAPER			
	ТНІ	S IS THE END OF THE QUESTION PAPER	•		
	ТНІ	S IS THE END OF THE QUESTION PAPER		Total Qu	estion 14

(29)

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(32)