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2 hours.

#### 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 fifteen** questions.

#### **INFORMATION FOR CANDIDATES**

The total mark for this paper is 180. Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question. Quality of written communication will be assessed in questions **4(a)**, **5(d)**, **8(b)**, **14(g)(i)** and **14(g)(ii)**.

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Fo	r que	estic	on 1 insert the appropriate letter in the space provided.
1	(a)	(a) Select the most appropriate device for inputting a printed photograph into a computer.	
		Α	Video Camera
		в	Scanner
		С	Tracker Pad
		D	Digital Camera
			Answer [1]
	(b)		uch screens are commonly found in public areas. Select <b>one</b> advantage of using touch screens.
		Α	A lot of training is needed to use them
		В	Sound can interfere with the input of information
		С	The screens can become dirty and difficult to use
		D	A variety of options are always available for the user
			Answer [1]
	(c)		m the list below select the output device that produces the lowest ality printouts.
		Α	Inkjet Printer
		в	Drum Plotter
		С	Impact Printer
		D	Laser Printer
			Answer [1]
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<b></b>			
(d)		n is an architect and wants to print plans of the house he has just signed. Which device would he use?	Examiner Only Marks Remark
	Α	Flatbed Plotter	
	В	Colour Laser Printer	
	С	Tracker Pad	
	D	Graphics Digitiser	
		Answer [1]	
(e)	Joł	nn's laptop has a LCD screen. Expand the acronym LCD.	
	Α	Light Crystal Display	
	В	Liquid Compact Display	
	С	Light Compact Display	
	D	Liquid Crystal Display	
		Answer [1]	
(f)	Sel	lect an appropriate use of cache memory.	
	Α	To store the most recently used instructions	
	В	To store data permanently for fast access	
	С	To store the boot up program for the operating system	
	D	To store the drivers for peripheral devices attached to the computer	
		Answer [1]	
			[Turn over
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(g) Select one reason why HD movies are stored on Blu-ray discs instead of DVD ROM.       Items Terms Te			
more quickly         B         BLu-ray discs have a higher storage capacity so store more detail about the movie         C       Blu-ray discs cannot be edited so the user cannot copy the movie         D       Blu-ray discs are smaller in size so they can fit Blu-ray players in the TV         Answer       [1]         (h)       Select the statement that correctly explains the difference between CD ROM and CD-R.         A       New data can be written to a CD-R but not to a CD ROM         B       CD ROM has a higher storage capacity than CD-R         C       New data can be written to a CD ROM but not to a CD-R         D       CD ROM has a lower storage capacity than CD-R         C       New data can be written to a CD ROM but not to a CD-R         D       CD ROM has a lower storage capacity than CD-R         C       New data can be written to a CD ROM but not to a CD-R         D       CD ROM has a lower storage capacity than CD-R         Miswer       [1]         (i)       All computers contain RAM. Expand the acronym RAM.         A       Rapid Access Memory         B       Read Altered Memory         C       Random Access Memory         D       Readable Altered Memory         Answer       [1]	(g)		cor one reason why rib movies are stored on bid ray dises instead
about the movie C Blu-ray discs cannot be edited so the user cannot copy the movie D Blu-ray discs are smaller in size so they can fit Blu-ray players in the TV Answer[1] (h) Select the statement that correctly explains the difference between CD ROM and CD-R. A New data can be written to a CD-R but not to a CD ROM C D ROM has a higher storage capacity than CD-R C New data can be written to a CD ROM but not to a CD-R D CD ROM has a lower storage capacity than CD-R (i) All computers contain RAM. Expand the acronym RAM. A Rapid Access Memory B Read Altered Memory C Random Access Memory D Readable Altered Memory [1]		Α	
D       Blu-ray discs are smaller in size so they can fit Blu-ray players in the TV         Answer       [1]         (h)       Select the statement that correctly explains the difference between CD ROM and CD-R.         A       New data can be written to a CD-R but not to a CD ROM         B       CD ROM has a higher storage capacity than CD-R         C       New data can be written to a CD ROM but not to a CD-R         D       CD ROM has a lower storage capacity than CD-R         D       CD ROM has a lower storage capacity than CD-R         D       CD ROM has a lower storage capacity than CD-R         Image: CD ROM has a lower storage capacity than CD-R       [1]         (i)       All computers contain RAM. Expand the acronym RAM.         A       Rapid Access Memory         B       Read Altered Memory         C       Random Access Memory         D       Readable Altered Memory         Answer		В	
the TV Answer [1]  (h) Select the statement that correctly explains the difference between CD ROM and CD-R. A New data can be written to a CD-R but not to a CD ROM CD ROM has a higher storage capacity than CD-R C New data can be written to a CD ROM but not to a CD-R D CD ROM has a lower storage capacity than CD-R D CD ROM has a lower storage capacity than CD-R (i) All computers contain RAM. Expand the acronym RAM. A Rapid Access Memory B Read Altered Memory C Random Access Memory D Readable Altered Memory [1]		С	Blu-ray discs cannot be edited so the user cannot copy the movie
<ul> <li>(h) Select the statement that correctly explains the difference between CD ROM and CD-R.</li> <li>A New data can be written to a CD-R but not to a CD ROM</li> <li>B CD ROM has a higher storage capacity than CD-R</li> <li>C New data can be written to a CD ROM but not to a CD-R</li> <li>D CD ROM has a lower storage capacity than CD-R</li> <li>C D ROM has a lower storage capacity than CD-R</li> <li>I CD ROM has a lower storage capacity than CD-R</li> <li>I CD ROM has a lower storage capacity than CD-R</li> <li>I CD ROM has a lower storage capacity than CD-R</li> <li>I CD ROM has a lower storage capacity than CD-R</li> <li>I (i) All computers contain RAM. Expand the acronym RAM.</li> <li>A Rapid Access Memory</li> <li>B Read Altered Memory</li> <li>C Random Access Memory</li> <li>D Readable Altered Memory</li> <li>Answer [1]</li> </ul>		D	
ROM and CD-R.         A       New data can be written to a CD-R but not to a CD ROM         B       CD ROM has a higher storage capacity than CD-R         C       New data can be written to a CD ROM but not to a CD-R         D       CD ROM has a lower storage capacity than CD-R         D       CD ROM has a lower storage capacity than CD-R         Manswer       [1]         (i)       All computers contain RAM. Expand the acronym RAM.         A       Rapid Access Memory         B       Read Altered Memory         C       Random Access Memory         D       Readable Altered Memory         C       Random Access Memory         D       Readable Altered Memory			Answer [1]
<ul> <li>B CD ROM has a higher storage capacity than CD-R</li> <li>C New data can be written to a CD ROM but not to a CD-R</li> <li>D CD ROM has a lower storage capacity than CD-R</li> <li>Answer [1]</li> <li>(i) All computers contain RAM. Expand the acronym RAM.</li> <li>A Rapid Access Memory</li> <li>B Read Altered Memory</li> <li>C Random Access Memory</li> <li>D Readable Altered Memory</li> <li>Answer [1]</li> </ul>	(h)		
C New data can be written to a CD ROM but not to a CD-R D CD ROM has a lower storage capacity than CD-R Answer [1] (i) All computers contain RAM. Expand the acronym RAM. A Rapid Access Memory B Read Altered Memory C Random Access Memory D Readable Altered Memory Answer [1]		Α	New data can be written to a CD-R but not to a CD ROM
C New data can be written to a CD ROM but not to a CD-R D CD ROM has a lower storage capacity than CD-R Answer [1] (i) All computers contain RAM. Expand the acronym RAM. A Rapid Access Memory B Read Altered Memory C Random Access Memory D Readable Altered Memory Answer [1]		в	CD ROM has a higher storage capacity than CD-R
<ul> <li>Answer [1]</li> <li>(i) All computers contain RAM. Expand the acronym RAM.</li> <li>A Rapid Access Memory</li> <li>B Read Altered Memory</li> <li>C Random Access Memory</li> <li>D Readable Altered Memory</li> <li>Answer [1]</li> </ul>		С	
<ul> <li>(i) All computers contain RAM. Expand the acronym RAM.</li> <li>A Rapid Access Memory</li> <li>B Read Altered Memory</li> <li>C Random Access Memory</li> <li>D Readable Altered Memory</li> <li>Answer [1]</li> </ul>		D	CD ROM has a lower storage capacity than CD-R
A Rapid Access Memory B Read Altered Memory C Random Access Memory D Readable Altered Memory Answer [1]			Answer [1]
B Read Altered Memory C Random Access Memory D Readable Altered Memory Answer [1]	(i)	All	computers contain RAM. Expand the acronym RAM.
C Random Access Memory D Readable Altered Memory Answer [1]		Α	Rapid Access Memory
D Readable Altered Memory          Answer [1]		в	Read Altered Memory
Answer [1]		С	Random Access Memory
		D	Readable Altered Memory
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			<b>FT</b>
		Answer [1]	
	D	Adding action buttons and text formatting	
	C	Adding sound and filtering data	
	В	Adding animation and slide transitions	
	Α	Adding video and hyperlinks	
(I)		nich of the following options contains a feature <b>not</b> available when ng multimedia presentation software?	
		Answer [1]	
	D	Blu-ray, DVD ROM, CD ROM	
	С	DVD ROM, Blu-ray, CD ROM	
	в	Blu-ray, CD ROM, DVD ROM	
	Α	CD ROM, DVD ROM, Blu-ray	
(k)		lect the statement that shows the storage devices in order of bacity from lowest to highest.	
		Answer [1]	
	D	Storage that is connected to the computer by a cable	
	С	Storage used for cache memory	
	В	Storage that loses data when the power is switched off	
	Α	Storage that holds data even when the power is switched off	
(j)	Se	lect the correct definition of the term non-volatile storage.	Examiner Only Marks Remark

(m)		me presentation packages allow you to create a master slide. What a master slide?	Examiner Only Marks Remark
	Α	A slide that all of the other slides in the presentation can be opened from	
	В	A slide added at the start of the presentation which contains the title	
	С	A slide that stores all of the video and sound files for the presentation	
	D	A slide that when edited will update the contents of all slides made from it	
		Answer [1]	
(n)		ich of the following options cannot be used to change the quence in which slides are viewed in a presentation?	
	Α	Action Buttons	
	В	Hyperlinks	
	С	Hotspots	
	D	Animations	
		Answer [1]	
			Total Question 1
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		Marks
0	Computer viruses make it to orbit	
	A computer virus is alive and well on the International Space Station (ISS).	
	Nasa has confirmed that laptops carried to the ISS in July were nfected with a virus known as Gammima.AG.	
i	The worm was first detected on Earth in August 2007 and lurks on nfected machines waiting to steal login names for popular online games.	
	© From BBC News at bbc.co.uk/news	
(a)	What is a virus?	
	[2]	
(b)	What type of virus is Gammima.AG?	
	[1]	
(c)	Describe how viruses like Gammima.AG work.	
	[2]	
(d)	List <b>two</b> possible sources of viruses for any computer system.	
	1.	
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(e)	What law do creators of computer viruses break?		Examin Marks	er Only Remark
		[1]		Komark
			Total Qu	estion 2

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search is shown below. (a) What other website i	s currently open on Ciara's com	outer?
		[1]
88 - @CCEA   ICT Morosite X Google		1
COUNCIL FOR THE CURRICUL	LUM EXAMINATIONS AND ASSESSMENT	GƏÐ
Home Curricul	um Qualifications Regulation About Us	Rewarding Learning
HOME > MICROSITES > 1CT Specification	The second s	Curtien Skarich
ICT Home  Revised GCE ICT	Revised GCSE	inform allon communication technology
GCSE ICT Full Course     GCSE ICT Short Course	Specification	
Revised GCSE Full     Specification	Specification Assessment	
Examinations Controlled Assessment Support Materials	This specification has three units:	Useful Downloads
Fags  Revised GCSE Short	<ul> <li>Tools and Applications;</li> <li>Using Multimedia and Games Technology; and</li> </ul>	Specification (POP)
Entry Level ICT     Examining with CCEA	<ul> <li>Understanding ICT Systems in Everyday Life and Its Implications for Individuals, Organisations, Society and the Wider World.</li> </ul>	Related Circulars Agreement Trials (S/IF/104/10)
News and Events Useful Links	The table below outlines the content in more detail:	(PDP)
Contact us	Tools and Applications Communications Software Presentation Package	Controlled Assessment Task (5/1F/76/10)
	Information Handling Package	(101)
(b) The URL for the web	page is <u>www.ccea.org.uk/ict</u>	
State what each of the	ne following are within the URL.	
(i) www		[1]
(ii) ccea.org.uk		[1]
(iii) ict		[2]
		[Ti

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(c) Some documents are provided in pdf format. Tick (✓) two correct answers about pdf files.

Statement	Tick (√)
Special software is required to read pdf files	
pdf files can be viewed on a PC but not on any other type of computer	
pdf files can be viewed on computers with different operating systems	
pdf means Portable Document File	
	[

- (d) Teachers have suggested that the website should contain digital videos and podcasts for their use.
  - (i) Using the list below complete the table by inserting the most appropriate file format for each file.

t	ct jpg	rtf	mp3	mp4
	File		File Format	
	Video			
	Podcast			
	Photographs			

(ii) Some information is provided in a compressed or zipped file. List two features of this file type.

1	
2	[2]

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[3]

Examiner Only

Marks Remark

Internet Explorer  Do you want to close all tabs?		
Show <u>□</u> ptions     Close <u>I</u> abs <u>□</u> ancel		
Tick (✓) <b>two</b> of the following statements which are <b>TRUE</b> about on a web browser.	out a <b>tab</b>	
Statement	Tick (√)	
A tab can be used to download web pages		
Tabs provide a way of uploading information to a website		
Tabs allow the user to open more than one web page in the browser window		
Tabs provide an easy way of switching between websites		
	[2]	

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(a)	Expand the following	g acronyms:			
	(i) LAN			[1]	
	(ii) WAN			[1]	
(b)	Complete the parage from the list provided	• •	lecting the appropriate w I only once.	ords	
	DATA	ACCESS	WORKSTATION		
	VIRUS F	ILESERVER	PERIPHERALS		
	When using a LAN p	eople can share		·	
	Α	stores a	all user		
	and users can log or	n at anv	to a	access	
			to t		
	their files.	-		[4]	
	their files. Match the following inserting the correct	Network Terms v	vith the correct definition		
Letter	their files. Match the following inserting the correct	Network Terms v letter beside the A set of ru data is tra	vith the correct definition definition.	by	
Letter	their files. Match the following inserting the correct Network Term	Network Terms v letter beside the A set of ru data is tra network	vith the correct definition definition. <b>Definition</b> Iles which define how nsferred around a	by	
Letter	their files. Match the following inserting the correct Network Term Computer	Network Terms v letter beside the A set of ru data is tra network A device v connect to	vith the correct definition definition. <b>Definition</b> Iles which define how nsferred around a which allows the LAN to o the Internet	by	
Letter	their files. Match the following inserting the correct Network Term Computer Router Network Interface	Network Terms v letter beside the A set of ru data is tra network A device v connect to A device v	vith the correct definition definition. <b>Definition</b> Iles which define how nsferred around a which allows the LAN to	by	
Letter	their files. Match the following inserting the correct Network Term Computer Router Network Interface Card	Network Terms v letter beside the A set of ru data is tra network A device v connect to A device v computers LAN A device v	vith the correct definition definition. <b>Definition</b> Iles which define how nsferred around a which allows the LAN to o the Internet which individual s need to connect to the which provides a single	by	
Letter	their files. Match the following inserting the correct Network Term Computer Router Network Interface Card Switch	Network Terms v letter beside the A set of ru data is tra network A device v connect to A device v computers LAN A device v	vith the correct definition definition. <b>Definition</b> Iles which define how nsferred around a which allows the LAN to o the Internet which individual s need to connect to the which provides a single n point for a group of	by	
(c) Letter	their files. Match the following inserting the correct Network Term Computer Router Network Interface Card Switch Protocol	Network Terms v letter beside the A set of ru data is tra network A device v connect to A device v computers LAN A device v	vith the correct definition definition. <b>Definition</b> Iles which define how nsferred around a which allows the LAN to o the Internet which individual s need to connect to the which provides a single n point for a group of	by	
Letter	their files. Match the following inserting the correct Network Term Computer Router Network Interface Card Switch Protocol	Network Terms v letter beside the A set of ru data is tra network A device v connect to A device v computers LAN A device v	vith the correct definition definition. <b>Definition</b> Iles which define how nsferred around a which allows the LAN to o the Internet which individual s need to connect to the which provides a single n point for a group of	by	

misuse or attack. Measure 1:	
Description:	
Description:	
Measure 3: Description:	
	Total Question 5

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(Questions continue overleaf)

7543.06**R** 

[Turn over



6 Cabs4U provide local companies with a taxi service. Companies receive an invoice each month and must pay the Amount Outstanding. This is part of an invoice for Margaret Greenway.

	А	В	С		D	E		F
1			Invoice Cabs	s4u				
2								
3	Customer Name	Margaret Greenway				After Hours Charge (Applies between 00:30 and 06:00)		15%
4	Customer Address	1 Ivy Road				VAT		20%
5		Castledawson						
6		BT5 7PT						
7	Date	05/05/2012						
8	Month	April						
9								
10	Date	Time	Details		Fare	After Hours Charge	Journ	ey Cost
11	04/04/2012	14:00	City Hotel to Townhall	£	5.00	No	£	5.00
12	04/04/2012	18:20	TownHall to Ivy Road	£	7.70	No	£	7.70
	01/01/2012	10.20	,				-	
13	04/04/2012	05:30	Ivy Road to Train Station	£	8.90	Yes	£	10.24
13 14			,		8.90 82.50	Yes No		10.24 82.50
	04/04/2012	05:30	Ivy Road to Train Station	£			£	-
14	04/04/2012 05/04/2012	05:30 17:55	Ivy Road to Train Station Ivy Road to Airport	£	82.50	No	£	82.50
14 15	04/04/2012 05/04/2012 06/04/2012	05:30 17:55 01:00	Ivy Road to Train Station Ivy Road to Airport Ivy Road to 37 Drummond Walk	£ £ £	82.50 14.50	No Yes	£ £ £	82.50 16.68
14 15 16	04/04/2012 05/04/2012 06/04/2012	05:30 17:55 01:00	Ivy Road to Train Station Ivy Road to Airport Ivy Road to 37 Drummond Walk	£ £ £	82.50 14.50	No Yes	£ £ £	82.50 16.68
14 15 16 17	04/04/2012 05/04/2012 06/04/2012	05:30 17:55 01:00	Ivy Road to Train Station Ivy Road to Airport Ivy Road to 37 Drummond Walk	£ £ £	82.50 14.50	No Yes No	f f f f	82.50 16.68 12.50
14 15 16 17 18	04/04/2012 05/04/2012 06/04/2012	05:30 17:55 01:00	Ivy Road to Train Station Ivy Road to Airport Ivy Road to 37 Drummond Walk	£ £ £	82.50 14.50	No Yes No Total	£ £ £ £	82.50 16.68 12.50 134.62
14 15 16 17 18 19	04/04/2012 05/04/2012 06/04/2012	05:30 17:55 01:00	Ivy Road to Train Station Ivy Road to Airport Ivy Road to 37 Drummond Walk	£ £ £	82.50 14.50	No Yes No Total VAT	£ £ £ £ £ £	82.50 16.68 12.50 134.62 26.92
14 15 16 17 18 19 20	04/04/2012 05/04/2012 06/04/2012	05:30 17:55 01:00	Ivy Road to Train Station Ivy Road to Airport Ivy Road to 37 Drummond Walk	£ £ £	82.50 14.50	No Yes No Total VAT	£ £ £ £ £ £	82.50 16.68 12.50 134.62 26.92

- (a) What formatting feature has been used to centre the heading Invoice Cabs4U?
  - \_\_\_\_\_ [1]
- (b) The spreadsheet contains the data type **text**. List **two** other data types which have been used in this spreadsheet.

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Marks Remark

			Formula	Tick (√)		
			=Sum(F11+F16)			
			=F11*F16			
			=Sum(F11:F16)		[1]	
(d)		n the t	ontains a calculation fo two cell references whi ula = (	ch make up the fo	ormula for cell F23.	
(e)		Why h	lours Charge of 15% is has Margaret been char taxi fares?			
	(ii)	refere	calculating the After H nce was used. is an absolute cell refe	-	[1]	
					[2]	



Write down the absolute cell references that would be use	ed in	Marks Remark
these formulae.		
F13	[1]	
F19	[1]	
		Total Question C
		Total Question 6

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#### CustomerTable

Field Name	Data Type
CustomerID	AutoNumber
Title	Text
Surname	Text
Forename	Text
Address 1	Text
Address 2	Text
Town	Text
County	Text
Post Code	Text

#### OrderTable

Field Name	Data Type
OrderID	AutoNumber
CustomerID	Number
CardType	Text
Quantity	Number

CustomerID is the key field in the CustomerTable.

- (a) Why is a key field needed in the CustomerTable?
- (b) Apart from the data types used in CustomerTable and OrderTable, identify **two other** data types which can be used when setting up a database.
  - 1.
     [1]

     2.
     [1]
    - •

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## 

Examiner Only Marks Remark

[Turn over

\_\_\_\_\_ [1]

Anne wants to set up a validation check to ensure Quantity in the OrderTable can only be between 1 and 50.

(c) (i) Place a tick (✓) beside the correct validation rule in the table below.

Validation Rule	Tick (√)
>=0 AND <=50	
>0 AND <50	
>=1 AND <=50	
>1 AND <=50	

- (ii) Name **two** other types of validation you can use to help reduce errors when entering data into a database.
- (d) Anne has created a one-to-many relationship between the CustomerTable and the OrderTable.

Name **one** other type of relationship which can be created in a relational database.

\_\_\_\_\_ [1]

[1]

Anne uses the following data in a lookup list under the field heading CardType.

- Birthday
- Baby Boy
- Baby Girl
- Wedding
- (e) Give one advantage of using a lookup list for data entry.

\_\_\_\_\_ [1]

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(f)	Give one	disadvantage of using a	lookup list for da	ata entry.	Examiner O Marks Rer
				[1]	
Anr		e following criteria to sele	ct all customers	who live in Lurgan.	
(g)	Write dov	n = "Lurgan" vn the criteria Anne would lfast and have ordered Bi		ll customers who	
				[3]	
(h)		ble below place a tick (✔) to display the results of a		base tool Anne	
		Database tool	Tick (√)		
		Form			
		Report			
		File			
		File Record		[1]	
(i)		Record es mailmerge to send a le ed Birthday cards from her		ners who have	
(i)	purchase	Record es mailmerge to send a le ed Birthday cards from her		ners who have ps she would have	Total Questi
(i)	purchase	Record es mailmerge to send a le ed Birthday cards from her		ners who have ps she would have	Total Questie



0 14-				Examiner Only
		CT teacher uses a VLE.		Marks Remark
(a)	Exp	and the acronym VLE.		
			[1]	
	_			
(b)		cribe <b>two</b> ways in which Molly's teacher can use a VLE to teac ICT class.	h	
	1.			
	2			
			[4]	
(c)	Mol	ly also makes use of CAL software.		
	(i)	Expand the acronym CAL.		
			[1]	
	(ii)	List <b>two</b> advantages of using CAL software in education.		
		1		
		2	[2]	
				Total Question 8
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	_ [2]	uestion
	_ [2]	
	_ [2]	
	_ [2]	
	_ [2]	
1		
(d) Identify two output devices used at an EFTPOS.		
(c) Give one advantage to Asma of using EFTPOS.	_ [1]	
(b) Give one disadvantage to Asma of using EFTPOS.	_ [1]	
	_ [1]	

vebs	ites are written	using HTML.			
a) E	Expand the acro	onym HTML.			
_					_ [1]
		ords below to com website design p	•	ble describing the	
	Hotspot	Hyperlink	Layer	Tables	
	Features of v	veb design pack	ages	Correct Word	1
	1 0	to organise text a s into rows and co			
		sed to place text a s on a web page	and other		
will t		b page that when another website,			
	rea of a graphic ction on a web l	that when clicke	d will cause		
					[4]
Site n websi	0	bls help web desig	gners organi	se the content of th	eir
		s you can comple ne management c		te management too te content.	bl
2					[2]

20 ĢQ 20 œ 20 œ 20 œ 00 œ 00 œ 20 œ 20 œ 200 œ 20 œ 20 œ 20 ĢQ 20 COL 20 0 œ 20 œ 20 œ 20 œ 20 GE 20 œ DO œ 20 œ 20 œ 00 œ

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	(i)	Give <b>one</b> reason why you should <b>not</b> use .bmp tincluding images on a website.	files when	Examiner C Marks Re
			[1]	
	(ii)	Give <b>one</b> reason why it is important that you do large video file on the home page of a website.	<b>not</b> include a	
			[1]	
(e)		umbnail images can be added to web pages wher ntent is required. Explain the term thumbnail imag		
			[2]	
<b>(£</b> )	امام			
(f)		ntify the following as statements about "vector-ba phics. The first one has been done for you. <b>Statement</b>	Vector-based	
(1)	gra	phics. The first one has been done for you.		
(1)	gra Th sh	phics. The first one has been done for you.  Statement  ne file contains instructions on how the image ould be redrawn.	Vector-based or bitmap	
(1)	gra Th sh Th	phics. The first one has been done for you. Statement ne file contains instructions on how the image	Vector-based or bitmap	
(1)	gra Th Sh Th Th Th	Statement         ne file contains instructions on how the image ould be redrawn.         ne file is made up of a grid of tiny pixels.	Vector-based or bitmap	
(1)	gra Th Sh Th Th Th ma	statement         Statement         ne file contains instructions on how the image ould be redrawn.         ne file is made up of a grid of tiny pixels.         ne image can be stretched without loss of clarity.         ne image is made up of objects defined by	Vector-based or bitmap Vector-based	
(1)	gra Th Sh Th Th Th ma	statement         Statement         ne file contains instructions on how the image ould be redrawn.         ne file is made up of a grid of tiny pixels.         ne image can be stretched without loss of clarity.         ne image is made up of objects defined by athematical equations.	Vector-based or bitmap	
	gra Th Sh Th Th Th ma	statement         Statement         ne file contains instructions on how the image ould be redrawn.         ne file is made up of a grid of tiny pixels.         ne image can be stretched without loss of clarity.         ne image is made up of objects defined by athematical equations.	Vector-based or bitmap Vector-based	
	gra Th Sh Th Th Th ma	statement         Statement         ne file contains instructions on how the image ould be redrawn.         ne file is made up of a grid of tiny pixels.         ne image can be stretched without loss of clarity.         ne image is made up of objects defined by athematical equations.	Vector-based or bitmap Vector-based	
	gra Th Sh Th Th Th ma	statement         Statement         ne file contains instructions on how the image ould be redrawn.         ne file is made up of a grid of tiny pixels.         ne image can be stretched without loss of clarity.         ne image is made up of objects defined by athematical equations.	Vector-based or bitmap Vector-based	

mo	en creating web pages they can be viewed in design view and prev de.		Marks	Rema
(g)	Explain the terms design view and preview mode.			
	Design View			
		_ [1]		
	Preview Mode			
		_ [1]		
Wh	en testing a completed website you may find broken hyperlinks.			
(h)	State <b>two</b> reasons why this might happen.			
	1	_ [1]		
	2	_ [1]		
			Total Que	estion
)6 <b>R</b>				

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<b>11</b> Jo	hn's l	laptop has the latest Windows operating system installed.		Examin	er Only
		te the purpose of the operating system on a computer system.		Marks	Remark
(k	) List	t <b>three</b> functions John can expect the operating system to perfo	rm.		
(0		nn describes the Windows operating system as a GUI.			
	(i)	Expand the acronym GUI.	_ [1]		
	(ii)	Describe the main features of a GUI.			
			_ [4]		
	(iii)	State why a GUI helps make the computer easier to use.		THE	
			_ [1]	Total Que	estion 11
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- **12** Gorgeous Pizza is a pizza delivery company. When a customer makes their first order they are asked to register for a loyalty card.
  - (a) When customers are registering they are asked a set of questions shown below. Place a tick (✓) beside the questions which should not be asked when registering for a store's loyalty card under the Data Protection Act.

Question	Tick (√)
What is your name?	
Do you have any convictions?	
What is your address?	
Do you have any medical conditions to declare?	
	[2]

- (b) George Smyth is a registered Gorgeous Pizza customer. Today he received a phone call from a computer company in the USA who said they obtained his information from Gorgeous Pizza.
  - (i) List **two** principles of the Data Protection Act which have been broken.
  - (ii) What title is given to the person responsible for ensuring the Data Protection Act is followed within Gorgeous Pizza?
    - \_ [1]
  - (iii) If George wishes to make a complaint about personal data held by Gorgeous Pizza, who should he contact?

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\_ [1]

**Total Question 12** 

œ

Examiner Only

Marks Remark



con • • • •	sole. It has the following features: $854 \times 480$ pixel touch sensitive screen Touch pad for playing games which slides out from the 1 GHz Processor 512 MB RAM 512 MB ROM 50 GB Storage space WiFi Bluetooth 3G	phone	Marks Rema
(a)	Read the statements below and write TRUE or FALSE The first has been done for you.	beside each.	
	Statement	TRUE/ FALSE	
	The phone has no wireless technology	FALSE	
	RAM is volatile		
	RAM and ROM are volatile		
	ROM is non-volatile		
	The processor will store user data when the phone is switched off		
	The processor will run programs while the phone is switched on		
		[5]	
			[Turn ov

00 ) œ 00 ) œ œ 0 œ 0 œ œ œ ) œ œ œ œ ) œ 60 ) œ 20 œ œ ) œ œ œ œ œ œ œ œ ) œ œ ) œ Œ ) œ œ œ œ ) œ œ œ œ ) œ

) <u>C</u>



Examiner Only

Marks Remark

(i) Describe two ways in which Bluetooth differs from WiFi.



(ii) Which wireless technology would you recommend for each of the tasks below?

Tasks	Which Wireless technology?
Connecting a headset to the phone to play online games	
Connecting the phone to the Internet to download movie files	
Connecting the phone to the Internet to read email whilst travelling	

[3]

- (c) Anna uses the smartphone for online banking. She is worried that if she loses her phone hackers could get her Internet banking details.
  - (i) What is a hacker?

[1]

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(ii)	Anna has set the browser on the phone to remember usernames and passwords. Explain to her why this is not good practice.	Examin Marks	er Only Remark
	[1]		
(iii)	Anna's friend has suggested encrypting the data stored on the phone.		
	What is encryption?		
	[2]		
		Total Qu	estion 13
7543.06 <b>R</b>		[Tur	n over

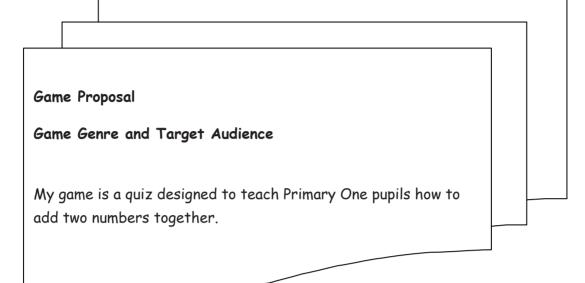


14		xander's mum has set up a games room in their home so he and his nds can play their computer games.	Examin Marks	ner Only Remark
	Sor pro	s		
	(a)			
		1		
		2	[2]	
	(b)	From the list of controllers below identify the most appropriate controller for each of the computer games shown on the next page.		
		steering wheel balance board tracker pad		
		keyboard joystick		
7543.	.06 <b>R</b>			

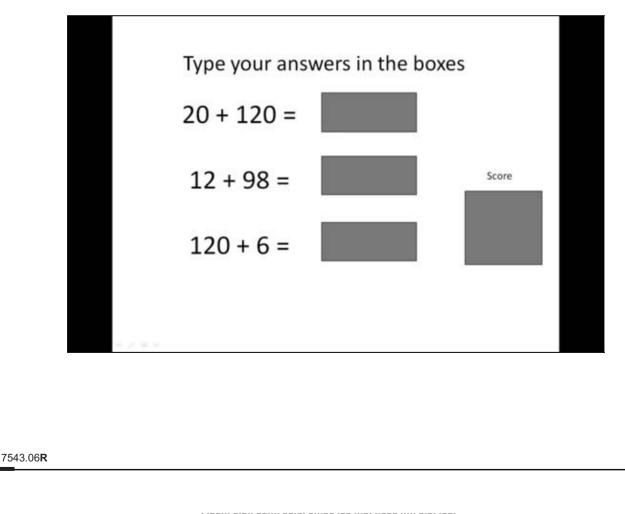
GO 200 GO 20 œ 20 œ 20 0 GO 200 œ DO œ 20 œ 20 œ 200 GE 20 Q DO œ 20 œ 20 0 GOL 20 0 œ 20 œ 20 4 GE 200 œ 20 GE 20 œ DO œ 20

Game Interface	Controller	Marks R	emar
"image of car/driving simulation game"			
"image of popular arcade game"			
"image of fitness/exercise simulation game"			
	[3]		
	ed to be played using hands free controllers.		
computer games.	s of using hands free controllers to control		
2	[2]		
543.06 <b>R</b>		[Turn	ov

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- (d) Alexander must design a computer game as part of his GCSE ICT course. Part of his games proposal and the game interface are shown below.



#### Game Interface



## 

1	
2 [2]	
<ul> <li>ii) Apart from game genre and target audience, list two other items of information which should be included in the game proposal.</li> </ul>	
1 [1]	
2 [1]	
Alexander's teacher tells him the user should be able to access the telp pages at any time.	
Give <b>one</b> reason why this is important.	
[1]	
Apart from Help, list <b>two</b> other options that should be made available o users at all times when playing a computer game.	
[2]	
	[Turn over
	of information which should be included in the game proposal.       [1]         1.       [1]         2.       [1]         3.       [1]         allexander's teacher tells him the user should be able to access the help pages at any time.         Bive one reason why this is important.         [1]         apart from Help, list two other options that should be made available o users at all times when playing a computer game.



(g) (i)	Computer games can be classified into genres. Apart from quizzes, identify <b>three</b> other game genres and provide a brief description of each.	Examin Marks	er Only Remark
	Genre 1:		
	Description:		
	Genre 2:		
	Description:		
	Genre 3:		
	Description:		
	·		
	[6]		
7543.06 <b>R</b>			

<b>—</b>			
(ii)	Identify and explain <b>three</b> problems which may impact on individuals who play computer games over a long period of time.	Examir Marks	er Only Remark
	Problem 1:		
	Explanation:		
	Problem 2:		
	Explanation:		
	Problem 3:		
	Explanation:		
	[6]		
		Total Ou	estion 14
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1343.00 <b>N</b>			



(a) Use some of the words from the list below to complete the paragraph which explains the process of recording and storing digital sound files.						
Analo	ogue	Memory	Digital	Microphone	Speaker	
Ν	lobile ph	iones have a bu	iilt-in	to record	sound.	
S	ound is	input in	for	mat and is then con	verted into	
_		forma	t so it can be s	stored in the phone's	s memory. [3]	
Digita	l Video a	and sound can	be distributed	to others across the	Internet.	
• •		<b>e</b> method of par another.	ssing digital so	ound files from one	mobile	
_					[1]	
T	HIS IS	THE END	OF THE Q	UESTION PAP	PER	
					Total C	lues
6 <b>R</b>						

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Question Number	Marks			
1				
2				
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4				
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8				
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10				
11				
12				
13				
14				
15				
Total Marks				

Examiner Number

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