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General Certificate of Secondary Education 2014

Information and Communication Technology (Short Course)

Unit 2: Understanding ICT Systems in Everyday Use and its Implications for Individuals, Organisations, Society and the Wider World



[GIT41]

WEDNESDAY 14 MAY, MORNING

GIT41

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 ten** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is **90**.

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 **3(b)**, **6(b)** and **7**.



For	que	estic	on 1 insert the appropriate letter in the space provided.	Exam Marks	iner Only Remark
1	(a)	Wh	ich statement is true about a smartcard chip?		
		Α	A smartcard chip has less storage capacity than a magnetic strip and data on a smartcard chip cannot be updated	е	
		В	A smartcard chip has less storage capacity than a magnetic strip and data on a smartcard chip can be updated	е	
		С	A smartcard chip has more storage capacity than a magnetic stripe and data on a smartcard chip can be updated		
		D	A smartcard chip has more storage capacity than a magnetic stripe and data on a smartcard chip cannot be updated		
			Answer [1]	
	(b)		well as a computer, the following are required to access the ernet:		
		Α	Webcam, Telecommunications Line, Internet Service Provider		
		В	Internet Service Provider, Telecommunications Line, Router		
		С	Telecommunications Line, Webcam, Router		
		D	Telecommunications Line, Internet Service Provider, Email		
			Answer [1]	
	(c)		ich of the following is not a function of the operating system in a nputer?		
		Α	It provides an interface for the user to interact with the hardware		
		В	It allocates RAM to programs and data		
		С	It controls peripheral devices		
		D	It provides Internet access		
			Answer [1]	

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(d)	Select the statement which describes the function of a graphics
	digitiser.
	A A graphics digitiser prints high quality graphics
	B A graphics digitiser connects the monitor to the motherboard
	C A graphics digitiser is the main electronic circuit board in a computer
	D A graphics digitiser uses a stylus to input data
	Answer [1]
(e)	Expand the acronym USB.
	A A Universal Serial Byte
	B A Uniform Serial Byte
	C A Universal Serial Bus
	D A Uniform Serial Bus
	Answer [1]
(f)	Select the statement which is true about flash memory technology.
	A It has no moving parts and consumes very little power
	B It operates using read write heads and is used to store data
	C It has no moving parts and requires a large power supply to operate
	D It operates using read write heads and consumes very little power
	Answer [1]
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(g)		omputer without having to pay a fee?	Examiner Only Marks Remark
	Α	Short Messaging Service and Bluetooth, Upload via cables, Multimedia Messaging Service	
	В	Upload via cables and Multimedia Messaging Service	
	С	Short Messaging Service and Bluetooth	
	D	Upload via cables and Bluetooth	
		Answer [1]	
(h)	Go	od data portability means that:	
	A	The data stored uses very little storage space	
	В	The data cannot be transferred from one system to another	
	С	The data can be easily transferred from one system to another	
	D	The data stored uses a large amount of storage space	
		Answer [1]	
(i)	Sel	ect the statement which is true about fibre optic cable.	
	A	Fibre optic cable carries data in pulses of light but is prone to interference	
	В	Fibre optic cable carries data as electronic signals and is not prone to interference	
	С	Fibre optic cable carries data as electronic signals and is prone to interference	
	D	Fibre optic cable carries data in pulses of light and is not prone to interference	
		Answer [1]	
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Passarting Learning DO GG 7 Learning Personning I	(j)	Wr	nich of the following best describes an icon when using a GUI?	
Roserding Learning		Α	A graphic which has been cropped	
y Learning Researching i		В	A graphic representing a short cut to a program	
Rewarding Learning		С	A graphic provided on a pull down menu	
y Learning Rewarding I		D	A graphic created when a program is opened	
DO GE 1 Learning Rewarding I				
Rewarding Learning			Answer	[1]
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2 Below is a simple spreadsheet created by Anna. She runs a drama school and is trying to find out how much she should charge customers in order to make a profit.

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	Α	В	С	D	E	F	G	Н
1	Lesson Name	Day of Week	Venue	Number of people	Total Income	Venue Rental	Insurance	Profit
2	Poetry	Monday	Study	22	£ 110.00	£ 45.00	£ 22.00	£ 43.00
3	Solo Drama	Monday	Studio	10	£ 50.00	£ 45.00	£ 5.00	£ 0.00
4	X-FactorFun	Tuesday	Main Hall	20	£ 100.00	£ 60.00	£ 5.00	£ 35.00
5	StrictlyDancing	Thursday	Main Hall	20	£ 100.00	£ 70.00	£ 5.00	£ 25.00
6								
7							Total Profit	£ 103.00
8								
9		How much will I charge?	£ 5.00					

[1

(b) In the table below, tick (✓) one formula that you would expect to find in cell H4.

Formula	Tick (✓)
D4-G4-F4	
E4+F4-G4	
E4-F4-G4	

[1]



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Rowarding Learning			Number of people	Cost		
y Learning Researcing I			Up to 20 people	£5.00		
DO GE			More than 20 people	£1.00 per person		
Rewarding Learning						
Theoreting Researching I		In the table be result in cell (elow, tick (√) two form G2.	ulae that would give	the correct	
TO GE 7 Learning Researching I		Formula		Tick (✓)		
Rewarding Learning		If(D2<=20,5	,D2*1)			
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Flowersing Learning		If(D2>20,5,E	02*1)		[2]	
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Reversiting Learning	(d)	How can cell	C9 be used to help pro	edict profit?		
y Learning Rewarding I	(4)		or no accurate marp pro	odiot pronti		
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Flowering Learning	(e)		Profit column. What ac	dvice would you give	to Anna about	
y Learning Researching I		each class sh	ie is rumining?			
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GGG Researching Learning 20 06 (f) Which three cell ranges have been used to create the graph shown? Examiner Only Marks Remark 50 45 40 35 30 ■ Poetry 25 ■ Solo Drama 20 X-FactorFun 15 ■ StrictlyDancing 10 5 0 Number of people **Profit** [3] (g) Anna wants to create the graph using a macro. (i) What is a macro? (ii) Describe how a macro is created in a spreadsheet.

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Total Question 2



From the list below, tick (\checkmark) two statements which are advantages of online banking.				
Statement	Tick (✓)			
The bank's employees can work from home				
Less staff will be needed in branches of the bank				
Overheads such as building rental will be reduced				
More branches of the bank will have to be opened				
	[2]			
Advantages of online banking to customers:				
The importance of secure websites:				

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4	The	stside College allows pupils from another school to study GCSE ICT. ese pupils use the Virtual Learning Environment (VLE) and video ferencing for their studies.	Examiner Only Marks Remark
	(a)	Apart from uploading and downloading materials, explain two other features of the VLE which could be used to teach GCSE ICT.	
		1	
		2	
		[4]	
	(b)	Explain two disadvantages to the pupils of using the VLE to teach them.	
		1	
		2	
		[4]	
	(c)	When the school is using video conferencing they must ensure they have enough bandwidth.	
		(i) Apart from a computer, list three items of equipment required for video conferencing.	
		1	
		2.	
		o [o]	

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Rewarding Learning	(iii)	How can bandwidth affect video conferencing?
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				mputer. The following software	Examiner Only Marks Remark
	pac	kage	es are available on her compu	iter.	
	(a)		m the list below, tick (\checkmark) the ming pictures.	nost appropriate software package for	
			Software Package	Tick (✓)	
			Presentation Software		
			Database Software		
			Graphics Software		
			Spreadsheet Software	[1]	
	(b)		h sends the pictures to her frience not open the folder.	end Ahmed in a zipped folder. He	
		(i)	_	I may not be able to open the zipped	
			folder.		
				[1]	
		(ii)	What is the benefit of sending	g items by email in this format?	
				[1]	
					Total Question 5
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6 E	Bar	codes are widely used in supermarkets.	Examine Marks	er Only Remark
((a)	Apart from the check digit state two other pieces of information stored on a barcode.		
		1		
		2 [2]		
((b)	The vast majority of supermarkets have installed EFTPOS. These systems record sales transactions and allow customers to pay for their purchases. Describe the input and output components of a typical EFTPOS		
		system and state how they are used when a customer arrives at the checkout to make a purchase.		
		[4]		
			Total Qu	estion 6
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7	The number of people who shop online is increasing. There are advantages for both the customer and the company.	Examine Marks	er Only Remark
	Discuss three advantages for a company when using a website to sell products.		
	[6]		
		Total Que	estion 7
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8 (a) Zen Video is constructing a new database. The figure below shows the table structure being set up in their database package. The table is called VIDEO.

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Marks	Remark		

_ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	VideoNumber Video Title	Number	Video Number - Primary or Key field Title of the video
			Title of the video
	Conro		
	Genre		Classification of the Video, e.g Comedy, War etc
F	Release Date		Date video released
	InStock		Is the video in stock
			1 11 11 11 11 11 11 11 11 11 11 11 11 1

In the table below insert data types for the fields in the Video table structure. The first one is completed for you.

Field Name	Data Type
VideoNumber	Number
VideoTitle	
Genre	
Release Date	
InStock	

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	(b) Some data must be entered in a certain format. Complete the sentence below by inserting the correct words from the list provided.					
	Data Type					
	Length Check					
	Input Mask					
	Error Message					
The	defines the format of the data to be					
entered.	[1]					
Field Name VideoNumber In the figure above, the Primary or Key field.	Data Type Description Number Video Number - Primary or Key field the VideoNumber field is shown and described as a					
(c) Why is a Primary	y or Key field necessary in the Video table? [1]					
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Ice Age	First Nan	ne Surname	Title	Price Returned		
Railf Omar Fine Matrix Fig. 500 Forest Storm Fig. 500 Fig. 500 Fig. 500 Forest Gump Fig. 500 Forest Gump Fig. 500 Forest Gump Fig. 500 Fi	William	Black				
The Matrix £3.00 ☑ Perfect Storm £3.00 ☐ Big Daddy £3.00 ☐ E9.00 Peter Sergant Shrek £3.50 ☐ Gladiator £3.50 ☐ Forrest Gump £3.50 ☐ £10.50 Olsin Dundas Da Vinci Code £4.00 ☑ £4.00 (e) When producing this report Zen Video used a wizard. What is a wizard? [2]			Ice Age	£2.50 ☑		
The Matrix Perfect Storm Big Daddy F3.00 F9.00 Peter Sergant Shrek Gladiator Forrest Gump Forrest Gump Forest Gump Falso Da Vinci Code F4.00 (e) When producing this report Zen Video used a wizard. What is a wizard? [2]				£2.50		
Peter Sergant Shrek £3.50 □ Gladiator £3.50 □ Forrest Gump £3.50 □ £10.50 Oisin Dundas Da Vinci Code £4.00 ☑ £4.00 (e) When producing this report Zen Video used a wizard. What is a wizard? [2]	Kalif	Omar				
Peter Sergant Shrek £3.50 □ Gladiator £3.50 □ Forrest Gump £3.50 □ £10.50 Oisin Dundas Da Vinci Code £4.00 ☑ £4.00 (e) When producing this report Zen Video used a wizard. What is a wizard? [2]			The Matrix	£3.00 🗹		
Peter Sergant Shrek £3.50 ☐ Gladiator £3.50 ☐ Forrest Gump £3.50 ☐ £10.50 Disin Dundas Da Vinci Code £4.00 ☑ £4.00 ☑ £4.00 (e) When producing this report Zen Video used a wizard. What is a wizard? [2]			Perfect Storm	£3.00 □		
Shrek £3.50 ☐ Gladiator £3.50 ☐ Forrest Gump £3.50 ☐ E10.50 Disin Dundas Da Vinci Code £4.00 ☑ £4.00 (e) When producing this report Zen Video used a wizard. What is a wizard? [2]			Big Daddy	£3.00 □		
Shrek £3.50 ☐ Gladiator £3.50 ☑ Forrest Gump £3.50 ☐ £10.50 Da Vinci Code £4.00 ☑ £4.00 (e) When producing this report Zen Video used a wizard. What is a wizard? [2]				£9.00		
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(e) When producing this report Zen Video used a wizard. What is a wizard? [2]	Oisin	Dundas		_		
(e) When producing this report Zen Video used a wizard. What is a wizard?			Da Vinci Code			
wizard? [2]				£4.00		
	(e)		ducing this report Zen Vid	eo used a wizard. What is a		
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Properties Leaving



9 ((a)	Complete the following sentences using the words below. (Not all words will be used).	Examiner Only Marks Remark
		Impact printers Ink-jet printers Laser printers Plotters	
		The advantage of using is that businesses	
		can produce high quality detailed diagrams. are more suitable for printing large volumes	
		of data consist of a print head which	
		contains nozzles. [3]	
((b)	Expand the acronym DVD.	
		[1]	
((c)	List two units used to measure memory capacity in a computer. 1	
		2[2]	
((d)	A computer contains RAM. State two features of RAM.	
		1	
		2 [2]	
((e)	Kieran has 20 films of 1 hour or more in length stored on his computer's hard drive. He needs a device that will enable him to back up these files.	
		Suggest a suitable backup device and state one advantage of using this device.	Total Question 9
ı		[2]	[Turn over

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10 Using the terms in the list below choose one term that best matches the Examiner Only Marks Remark definition in the left-hand column (not all terms will be used). **INTEGRITY TRANSITION VALIDATION E-COMMERCE CACHE** MAILMERGE REDUNDANCY **TEMPLATE ENCRYPTION BLU-RAY PIXEL ROM** CD-RW **BITMAP HYPERLINK HTTP Definition Term** Repeating data unnecessarily in a database Creating standard letters for a number of people and taking their details from a database The correctness, reliability and accuracy of data in a database An optical disk with a storage capacity large enough to hold a HD film The smallest area that can be edited on a graphic High speed memory that holds frequently used instructions A ready made document layout which can be reused Shopping and conducting business transactions online Contains the boot up program for the computer A feature which allows users to move between slides on a multimedia presentation [10] Total Question 10 THIS IS THE END OF THE QUESTION PAPER

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