

SHIDENIA	
Centre Number	5
	12.0
Candidate Number	13

Candidate Number				

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**.



 1 (a) Which statement is true about a smartcard chip? A A smartcard chip has less storage capacity than a magnetic stripe and data on a smartcard chip cannot be updated B A smartcard chip has less storage capacity than a magnetic stripe and data on a smartcard chip can be updated 	
and data on a smartcard chip cannot be updated B A smartcard chip has less storage capacity than a magnetic stripe	
C A smartcard chip has more storage capacity than a magnetic stripe and data on a smartcard chip can be updated	1
A smartcard chip has more storage capacity than a magnetic stripe and data on a smartcard chip cannot be updated	
Answer [1]	
(b) As well as a computer, the following are required to access the Internet:	
A Webcam, Telecommunications Line, Internet Service Provider	
B Internet Service Provider, Telecommunications Line, Router	
C Telecommunications Line, Webcam, Router	
D Telecommunications Line, Internet Service Provider, Email	
Answer [1]	
(c) Which of the following is not a function of the operating system in a computer?	
A It provides an interface for the user to interact with the hardware	
B It allocates RAM to programs and data	
C It controls peripheral devices	
D It provides Internet access	
Answer [1]	

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	digitiser. 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 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?	Examir Marks	ner Only 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		Marks Remark
	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 [7	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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GED Flowerting Learning	(j)) Which of the following best describes an icon when using a GUI?	Examiner Only
7 Learning Rewarding I	U)		Marks Remark
D GE 7 Learning Researching I		A graphic which has been croppedB A graphic representing a short cut to a program	
Rewarding Learning		C A graphic provided on a pull down menu	
g Learning Rewarding I		D A graphic created when a program is opened	
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GOE Researching Learning		Answer [1]	
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GGG Rewarding Learning 20 06 **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					

(a)	Write down the formula you would expect to find in cell H7.	

(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]

[1]



(c)	Insurance is ch	arged as shown belo	ow.		Examin
(0)]	Marks
		Number of people	Cost		
	-	Up to 20 people	£5.00		
		More than 20 people	£1.00 per person		
	In the table believes and the table below the		nulae that would give	the correct	
	Formula		Tick (✓)		
	If(D2<=20,5,D	2*1)			
	If(D2>20,D2*1	1,5)			
	If(D2<=20,D2	*1,5)			
	If(D2>20,5,D2	*1)		[2]	
(d)	How can cell C	9 be used to help pro	edict profit?		
, ,			·		
				[2]	
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(e)	each class she		dvice would you give	to Anna about	
				[2]	
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		1 14 MIN 11 MIN		I	
		2/	IGIT4107		
		24	10114101		

Figurating 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. Total Question 2 20 00

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(a)	From the list below, tick (\checkmark) two statements which are online banking.	advantages of	
	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]	
(b)	Eleanor has been asked to explain online banking to rentering university. You have been asked to write her		
	under the following headings.	speaking notes	
	 Advantages of online banking to customers The importance of secure websites 		
	Write the speaking notes in the space provided.		
	Advantages of online banking to customers:		
	The importance of secure websites:		
			Total Questi

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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 (
(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	
	3[3]	

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	(ii)	What is bandwidth?		Exam Marks
101			[2]	
	(iii)	How can bandwidth affect video conferencing?		
			[2]	
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edit	ing pictures.			
	Software Package	Tick (✓)		
	Presentation Software			
	Database Software			
	Graphics Software			
	Spreadsheet Software		[1]	
(i)	Give one reason why Ahmed may folder.	not be able to open		
			[1]	
	folder.		[1]	
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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. * « All Tables III VIDEO VIDEO Field Name Ⅲ VIDEO : Table VideoNumber Number Video Number - Primary or Key field Video Title Title of the video Classification of the Video, e.g Comedy, War etc Genre Release Date Date video released Is the video in stock InStock

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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	

[4]

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	be entered in a certain format. Complete the by inserting the correct words from the list provided.	Examiner Only Marks Remark
	Data Type	
	Length Check	
	Input Mask	
	Error Message	
The	defines the format of the data to b	e
entered.		[1]
Field Name VideoNumber	Data Type Description Number Video Number - Primary or Key field	1
In the figure above, the Primary or Key field.	ne VideoNumber field is shown and described as a	
(c) Why is a Primary	or Key field necessary in the Video table?	
		[1]
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Rowarding Learning	between the Loar	n and Video tables.		warks Kemark
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TLearning Rewarding I	(d) From the list and Loan tab		nship shown between the Vic	leo
Rowarding Learning	and Loan lab	nes.		
Learning Remarking		Type of Relationship	Tick (✓)	
Rewarding Learning Rewarding Rewarding		One-to-One		
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DO GG 7 Learning Rewarding I		Many-to-Many		[4]
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First Nam	e Surname	Title	Price Returned	
William	Black	Ice Age	£2.50 🗹	
Kalif	Omar		£2.50	
		The Matrix	£3.00 🗹	
		Perfect Storm Big Daddy	£3.00 □ £3.00 □	
		5.g 5555y	£9.00	
Peter	Sergant			
		Shrek	£3.50 □	
		Gladiator	£3.50 🗹	
		Forrest Gump	£3.50 ☐	
Oisin	Dundas		£10.50	
Oisiii	Dulluas	Da Vinci Code	£4.00 🗹	
			£4.00	
	When pro wizard?	ducing this report Zen Vid	eo used a wizard. What is a	
			[2]	
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9 (a	One of the following sentences using the words below. (Not all words will be used).	Examiner Only Marks Remark
	Impact printers	
	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]	
(k	Expand the acronym DVD.	
	[1]	
((List two units used to measure memory capacity in a computer.	
	1	
	2 [2]	
((A computer contains RAM. State two features of RAM.	
	1	
	2 [2]	
(€	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
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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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