

	Cer	itre ivi	ımbei

Candidate Number							

General Certificate of Secondary Education 2013

## Information and Communication Technology (Full Course)

Unit 3: Understanding ICT
Systems in Everyday Use and
its Implications for Individuals,
Organisations, Society and
the Wider World
[GIT31]



\*GIT31\*

**THURSDAY 6 JUNE, MORNING** 

TIME

2 hours.

## **INSTRUCTIONS TO CANDIDATES**

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

You must answer the questions in the spaces provided. Do not write outside the box, around each page or on blank pages.

Complete in blue or black ink only. **Do not write in pencil or with a gel pen.** Answer **all twenty-one** 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 3(c)(ii), 5(a), 7(a), 9(c), 13(b), 14(b) and 20(a).



	For question 1 parts (a)–(I) insert the appropriate letter in the space provided.  Examiner Only Marks Remark							
1	(a)	ΑV	VAN is:					
		Α	A World Area Network					
		В	A Wide Applications Network					
		С	A Wide Area Network					
		D	A World Applications Network					
			А	Answer	[1]			
	(b)	RS	l is:					
		Α	Repetitive Strain Injury					
		В	Repetitive Serious Injury					
		С	Realtime Strain Injury					
		D	Realtime Serious Injury					
			A	Answer	[1]			
	(c)	The	e law designed to protect against software o	copying is:				
		Α	The Copyright, Designs and Software Act					
		В	The Copyright, Designs and Patents Act					
		С	The Copyright, Data and Patents Act					
		D	The Computer, Data and Software Act					
			Α	Answer	[1]			
	(d)	AD:	SL is:					
		Α	Asymmetric Data Subscriber Line					
		В	Asymmetric Digital Sensor Line					
		С	Asymmetric Digital Subscriber Line					
		D	Asymmetric Data Sensor Line					
			А	Answer	[1]			

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(e)	Four main features of a GUI are:		Examine Marks	er Only Remark
	Α	Windows, Icons, Applications, Menus		
	В	Icons, Menus, Pointers, Windows		
	С	Software, Icons, Applications, Menus		
	D	Menus, Icons, Pointers, Software		
		Answer [1]		
(f)	Wh	nich statement is true about ROM?		
	Α	ROM can be written to but not read from.		
	В	ROM holds the programs currently being used by the computer system.		
	С	ROM can be read from but not written to.		
	D	Programs stored in ROM can be updated.		
		Answer [1]		
(g)	Wh	nich statement is true about RAM?		
	Α	RAM is non-volatile and the amount of RAM in a computer cannot affect its performance.		
	В	RAM is non-volatile and the amount of RAM in a computer can affect its performance.		
	С	RAM is volatile and the amount of RAM in a computer cannot affect its performance.		
	D	RAM is volatile and the amount of RAM in a computer can affect its performance.		
		Answer [1]		
(h)	Αt	template is:		
	Α	a program which helps the user to complete a task		
	В	a standard layout for a document which can be reused		
	С	a program which protects the computer against viruses		
	D	a document which has been merged with a database		
		Answer [1]		

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[Turn over



(i)	Sel	ect the statement which is true about a LAN.	Examiner Marks R	Only emark
	A	A LAN is a Logical Area Network, allows peripherals to be shared and has a file server for storing software.		
	В	A LAN is a Local Area Network, allows data to be shared across the Internet and has a file server for storing software.		
	С	A LAN is a Local Area Network, allows peripherals to be shared and allows users to share data.		
	D	A LAN is a Logical Area Network, allows data to be shared and has a file server for storing software.		
		Answer [1]		
(j)	Sel	ect the statement which is true about a fax machine.		
	Α	It must be switched on to receive faxes and can transmit hand written documents.		
	В	It does not need to be switched on to receive faxes and can transmit hand written documents.		
	С	It must be switched on to receive faxes and cannot transmit handwritten documents.		
	D	It cannot transmit handwritten documents and information received can be edited electronically.		
		Answer [1]		
(k)	Sel	ect the statement which is true about EFTPOS.		
	A	It provides itemised receipts but does not allow payments to be processed.		
	В	It allows barcodes to be scanned but does not allow payments to be processed.		
	С	It provides itemised receipts but does not allow barcodes to be scanned.		
	D	It provides itemised receipts and allows payments to be processed.		
		Answer [1]		

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(I)	ATI	M stands for:		Examin Marks	er Only Remark
	Α	Automatic Teller Money			
	В	Automatic Teller Machine			
	С	Application Teller Machine	е		
	D	Application Teller Money			
			Answer [1]		
(m)		e diagram below shows an input or output devices.	ATM. State whether the parts labelled		
I		В	A [1]		
li	1	A	B [1]		
		© iStock/Thinkstock			
				Total Qu	estion 1

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[Turn over



2 Joanne has created a spreadsheet to calculate the bonus due to each of her employees. Below is a section of the spreadsheet.

Examiner Only					
Marks	Remark				

20

	Α	В	С	D	E	F	G	Н	I
1		ŀ	Holiday B	onus Calci	ulator - Joar	nne's Jev	wellery		
2	Forename	Surname	Hours Worked	Rate of Pay Per Hour	Total before Bonus	before Bonus		Total Earned	Taxable
3	Anne	Dellby	20	£ 10.00	£ 200.00	10%	£ 20.00	£ 220.00	Yes
4	Jack	Beale	8	£ 6.00	£ 48.00	5%	£ 2.40	£ 50.40	No
5	Alex	Bowen	30	£ 10.00	£ 300.00	10%	£ 30.00	£ 330.00	Yes
6	Ewan	Rawdon	15	£ 8.00	£ 120.00	10%	£ 12.00	£ 132.00	Yes
7	John	Mahon	17	£ 9.00	£ 153.00	10%	£ 15.30	£ 168.30	Yes
8	Marc	Smyth	10	£ 7.00	£ 70.00	5%	£ 3.50	£ 73.50	No
9			100		£ 891.00		£ 83.20	£ 974.20	
10									
11									
12	Higher Bonus Rate	10%							
13	Lower Bonus Rate	5%							
14									
15	Tax Boundary	£100.00							

(a) Write down the formula you would expect to find in cell H9.

\_ [1]

(b) If an employee's Total Earned is more than £100.00, they must pay tax. Tick (✓) one formula which you would expect to find in cell I3.

Formula	Tick (✓)
=IF(H3>100,"Yes", "No")	
=IF(H3<100,"Yes", "No")	
=IF(H3=100, "No", "Yes")	

[1]

(c) Absolute cell references have been used in the following formula:

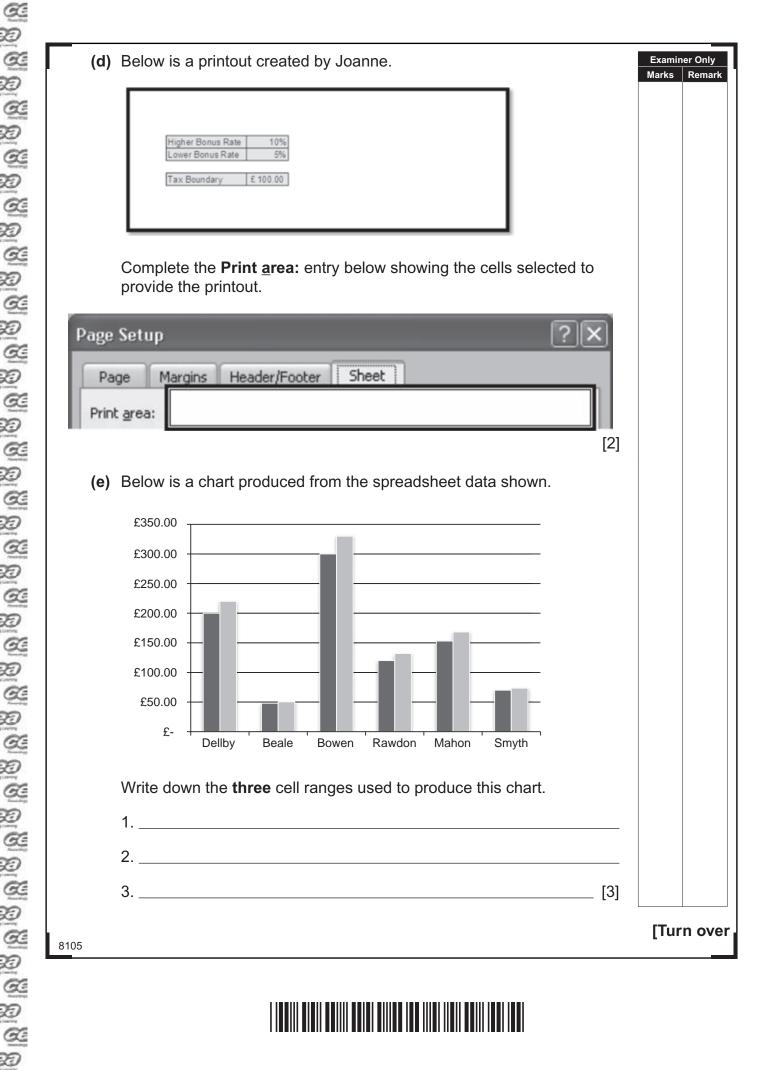
=IF(C3>10,\$B\$12,\$B\$13)

What is the advantage of using an absolute cell reference in any formula?

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Examiner Only Joanne creates another chart, shown below. Describe the information Marks Remark presented on the chart. Smyth Dellby 10% 20% Mahon 17% Beale 8% Rawdon Bowen 15% 30% [2] Total Question 2 8105

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3			orm create digital and painted images of Northern Ireland pes. The company has its biggest client in the United States.	Examine Marks	er Only Remark
	(a)		ents in the United States wish to meet the artists, so JK Artform re proposed using video conferencing for this purpose.		
		(i)	What is video conferencing?		
			[1]		
		(ii)	What advice would you give to the company about the bandwidth required for video conferencing?		
			[2]		
			npany director is concerned about the impact of ICT on the ment.		
	(b)	Des	scribe <b>one</b> way in which video conferencing can help reduce this.		
			[2]		
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(c) The director of JK Artform has decided to employ a nutelleworkers.	Examiner Only  Marks Remark					
(i) The statements below are about teleworking. Writ FALSE beside each. The first one has been done						
Statement						
Teleworking is the use of the telephone to make sales to customers.						
Teleworking allows employees to work flexible hours.	[1]					
Teleworker activity is more difficult for managers to monitor.	[1]					
Teleworking allows for a lot of face-to-face contact between workers.	Teleworking allows for a lot of face-to-face contact					
(ii) Describe how the use of teleworkers will impact of in terms of:  Recruiting employees Training employees Expenses and costs Recruiting employees  Training employees						

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	Expenses and costs	Examin Marks	er Only Remark
	[6]		
		Total Qu	uestion 3
		[T	n ever
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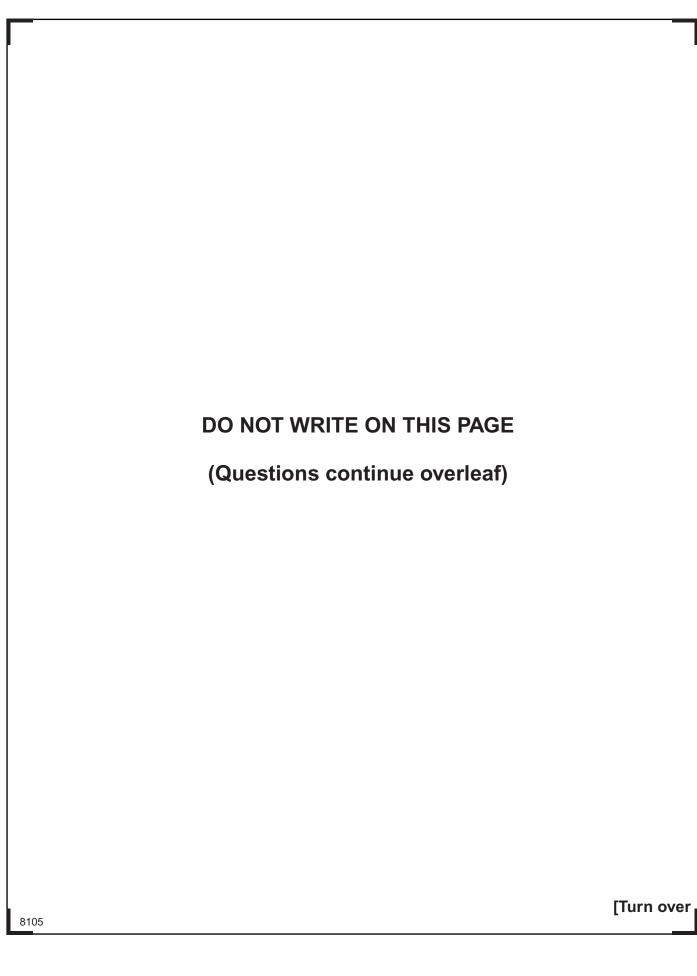


4	(a)	SM Estates have bought new computers and wish to network them. Using the terms provided, complete the following paragraph which will explain the function of network components to employees.  (Each selected term should be used only once.)		
		Network Interface Card Router Cable		
		Switch LAN WAN		
		A network which is used within a building is called a		
		Each computer on the network should		
		have a installed to allow the		
		computer to send messages on the network. A		
		is a single connection point for a group of computers and is connected		
		to the file server. The will share the		
		Internet connection between computers on the network. [4]		
	(b)	The company manager has asked about the protocol on the network. What is a network protocol?		
		[1]		
			Total Ques	tion 4
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5 (a	) The Data Protection Act is designed to protect an individual's personal data. Describe <b>two</b> different principles of the Data Protection Act <b>and</b> explain what a company should do to follow each of the principles you have chosen.	Examin Marks	er Only Remark
	Principle 1:		
	Explanation 1:		
	Principle 2:		
	Explanation 2:		
	[6]		
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(b) Tick (✓) two statements that are true about the role of individuals in the Data Protection Act.

Statement	Tick (√)
The Data Subject is the person who is responsible for the security of data.	
The Data Subject is the person about whom the data is held.	
The Information Commissioner is the person responsible for recording data in an organisation.	
The Information Commissioner is the person responsible for making sure companies follow the Data Protection Act.	

Total Qu	estion 5

[2]

Examiner Only

Marks Remark

[Turn over

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	GoMusic is a small business which provides professional music tutoring.  People register using an online form. The following rules apply:    Examiner Only   Marks   Remark   Remark					
<ul> <li>People must enter their surname onto the form.</li> <li>People must be aged 10–18.</li> <li>People can set up a member's account. If they do, they must select a password of at least eight characters.</li> <li>People may enter a budget for tutoring but it must be in pounds, e.g. £15.00.</li> <li>Tick (✓) one validation check for each item of data and give a reason for each choice in the space provided.</li> </ul>						
Data	Validation Check	Reason for choice				
(a) Surname	☐ Presence check ☐ Range check ☐ Length check ☐ Type check [1]	[1]				
(b) Budget	<ul><li>☐ Presence check</li><li>☐ Range check</li><li>☐ Length check</li><li>☐ Type check</li><li>[1]</li></ul>	[1]				
(c) Age	<ul><li>☐ Presence check</li><li>☐ Range check</li><li>☐ Length check</li><li>☐ Type check</li><li>[1]</li></ul>	[1]				
(d) Password	☐ Presence check ☐ Range check ☐ Length check ☐ Type check [1]	[1]	Total Question 6			
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7	(a)	acti	nputer gaming has become an extremely popular entertainmently. Outline the current trends in computer gaming under the owing headings:	nt	Examin Marks	er Only Remark
		•	Online gaming Games consoles			
		Onl	ine gaming:			
		Gar	nes consoles:			
				_ [6]		
	(b)	Joh	n is developing a game for his GCSE coursework.			
		(i)	He must produce a storyboard. What is the purpose of a			
			storyboard when developing a game?			
				_ [2]		
		(ii)	List <b>two</b> game elements which John could use in his game.		Total O	restion 7
			1		Total Qu	JESTION /
			2	_ [2]	[T	
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8	OM	IR is	a form of entering data into a computer.		Examin Marks	er Only Remark
	(a)	Exp	oand the acronym OMR.			
				_ [1]		
	(b)	List	two advantages of using OMR for entering data.			
		1				
		2		_ [2]		
	(c)		permarket checkout operators scan barcodes on products to duce customer bills.			
		(i)	List <b>two</b> items of data held on the barcode.			
			1			
			2	_ [2]		
		(ii)	State <b>one</b> reason why the barcode may not scan properly.			
				_ [1]		
					Total Qu	estion 8
					. 5 . 61	
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			Marks Remark
(a)	Circle <b>two</b> advantages that online shopping has brought to the customer.		
	No remises equired 24/7 shopping Fewer staff required Larger range of shops Goods are received immediately	[0]	
In <sub>f</sub>	order to shop online customers can use their Credit or Debit Card.	[2]	
(b)	List <b>two</b> pieces of data they will have to enter from their card when purchasing goods online.		
	1	[2]	
(c)	Explain how the following help ensure that customer details are	. [-]	
( )	processed securely when shopping online.		
	- CET		
	<ul><li>SET</li><li>Encryption</li></ul>		
	<ul> <li>Encryption</li> </ul>		
	Encryption  SET		
	Encryption  SET		
	Encryption  SET		Total Question 9



(A

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(a) Below is a section from the **Customer** table.

Name	House number	Street	Town/City	Postcode
Mr Joe Watson	1	High Street	Belfast	BT4 6TD
Mr Jim Donald	31	Mary Street	Newry	BT24 6TL
Miss Amy White	52	West Street	Armagh	BT62 8TY
Ms Caitlin Rooney	2a	Church Walk	Lisburn	BT18 5FG

(i) Shade <b>one</b> record in the table above.	[1]
---	-----

(ii) List one field name used in the table above.	
---	--

[1]

(b)	Explain how Lucy could change the Name field in this table to as	ssist
	her when searching for customers.	

		[2]

(c)	List two features of a database package which could help Lucy to
	produce printed information.

4	1	
П.	I.	
•	• •	

Lucy needs to include a primary key in the Video table below.

Title	Genre	Rating	Number in stock
High School Musical	Musical	U	4
The Secret of the Unicorn	Comedy	PG	5
The Lion King	Musical	U	3
Footloose	Musical	12A	6



(d)	Wha	at is a primary	/ ke	y?							Examir Marks	ner Only Remark
										[1]		
(e)	The	table below i	sas	sample c	of data	ı taken fro	om the	e <b>Renta</b>	ıl tab	le.		
Rental	No	Video ID	M	ember ID		Date rrowed		ays ented		ce per night		
01		COM01	٧	VAL01	20/0	05/2013		3	£	3.50		
02		CLA06	5	SMI01	20/0	05/2013		2	£	23.00		
02		MUS09	5	SMI01	20/0	05/2013		2	£	24.00		
03		THR11	Е	BES02	24/0	05/2013		2	£	23.50		
04		DRA05	C	CLA05	26/0	05/2013		3	£	23.00		
	(i)	Suggest data	a typ	es for the	e follo	wing field	ds in t	he <b>Ren</b>	<b>tal</b> ta	ble.		
		Field Name				Data Ty	ре					
		Rental No										
		Member ID										
	F	Price per nigh	t									
										[3]		
	(ii)	Lucy is going function of a							Wha	t is the		
										[1]		
											Total Qu	estion 10
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5. A. E. A



**11 (a)** James is a GCSE student and needs some help in selecting appropriate storage media for his coursework. He has asked about the following storage devices.

Examin	er Only
Marks	Remark

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Storage Device	Capacity
USB Memory Stick	2 Gigabyte
External Hard Drive	1 Terabyte
CD-R	650 Megabyte

(i) Complete the table below by inserting the name of the storage devices in order of their capacity, largest first.

Rank	Storage Device
1.	(largest capacity)
2.	
3.	(smallest capacity)

[3]

(ii) State whether each storage device is optical, magnetic or flash media.

Storage Device	Capacity	Type of media (optical, magnetic or flash)
USB Memory Stick	2 Gigabyte	
External Hard Drive	1 Terabyte	
CD-R	650 Megabyte	

[3]



(b) James has decided to use either a DVD-RW or DVD-R. Tick (✓) two statements that are true about these storage devices.

Statement	Tick (✓)
Both DVD-R and DVD-RW are read only.	
DVD-R can be written to only once.	
DVD-RW can be written to many times.	
Both DVD-R and DVD-RW can be written to only once.	

<b>(</b> )		
[2]		
[-]		
	Total Qu	estion 11

Examiner Only

Marks Remark

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	Search Criteria				Tick ( /)	
		<u> </u>			Tick (✓)	
	"Spanish Holidays"					
	Spanish Holidays					
	Costa Blanca + Be					
	Costa Blanca + Be					
	Costa Blanca + Be	nidorm +	Apartments	not Hotels		
					[1]	
	addresses contain	domain n				
;)	Place the following has been complete		lomains in th	e correct box. 1	he first one	
:)	has been complete		lomains in th	e correct box. T	he first one	
:)	has been complete	d for you.				
;)	has been complete	d for you.		.org		
;)	has been complete	.com		.org		
;)	Domain GOVERNMENT	.com	.ac	.org		

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HOT SPOTS ) (H'	YPERLINKS ) HTML ) HTTP	
110101010	THE TENERO THINKS	
erm	Definition	
	Included on web pages to allow users to navigate from one web page to another.	
	An area on a graphic which can be used to navigate from one page to another.	
	The language used to create web pages	
		[3]
(b) How can the foll	owing contribute to good website design?	
<ul> <li>Image composition</li> <li>Multimedia</li> <li>Image compress</li> </ul>		
Navigation		_   _
Multimedia		_   _   _
		Total Question
		[6]

5. A. E. A



14 Liz wants her friend to make a multimedia presentation to advertise her high school musical "South Pacific" to parents at the Open Evening.

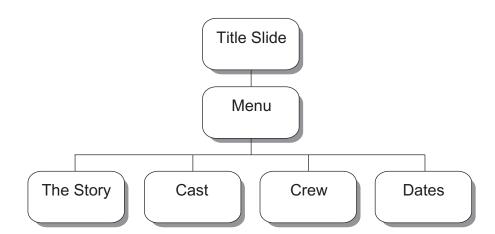
Examiner Only

Marks Remark

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She wants parents to be able to select their own pathway through the presentation, so Liz creates this navigation plan to show how slides should be linked



(a) In the table below, place a **tick** (✓) beside **two** presentation tools that would allow users to select different pathways through Liz's presentation.

Tool	Tick (√)
Timings	
Buttons	
Hyperlinks	
Master slide	
Templates	

[2]



Examiner Only Liz draws up the following storyboard for the first two slides of her Marks Remark presentation. She says she wants the presentation to contain animation and sound. **Title Slide** Menu Slide Graphic Menu Link Link Link Production and Link School Her friend creates the following slides for the start of Liz's multimedia presentation. **South Pacific** Menu The Story The Cast **BY OLDTOWN** The Music **HIGH SCHOOL** © iStock/Thinkstock © iStock/Thinkstock [Turn over



(b)	Identify three elements of the completed presentation Liz could test			
-	and say how she would carry out each test.			
	Test 1			
	Test 2			
	Test 3			
		[6]		
			Total Qu	est

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	Complete the table below to show Processing and Output in a water only be used once.)	• .		
	Activity	Input/Processing/Outp	ut	
	Temperature is compared to a range of values			
	Heating system turns ON/OFF			
	Temperature is read using sensors			
			[3]	
	sensors that are used in traffic co	tion Temperature	•	
		•	[2]	
(c)	Humidity Mo	tion Temperature  Pressure  lace a tick (✓) beside one	[2]	
(c)	Humidity Mor Sound  Control systems use feedback. P	tion Temperature  Pressure  lace a tick (✓) beside one	[2]	
(c)	Humidity Mod Sound  Control systems use feedback. Prof feedback used in a typical was	Pressure  lace a tick (✓) beside one hing machine.	[2] e example	
(c)	Humidity More Sound  Control systems use feedback. Prof feedback used in a typical was  Description  Washing machine cycle is selected.	Pressure  lace a tick (✓) beside one hing machine.	[2] e example	
(c)	Humidity More Sound  Control systems use feedback. Profeedback used in a typical was  Description  Washing machine cycle is select washing machine  The water temperature increases	Pressure  lace a tick (✓) beside one hing machine.  ted using a dial on the suntil it reaches the	[2] e example	

5. A. E. A



		n is making a movie with a soundtrack as part of his GCSE ICT ed assessment.	Exan Marks	Remark
The long		mpleted movie is 20 seconds long. The soundtrack is 30 seconds		
		n needs to modify the soundtrack to make sure it stops at the same the movie.	ne	
(a)	(i)	State <b>one</b> feature of a movie editing package that would allow hit to do this.	m	
		[	[1]	
	(ii)	How can Brooklyn use audio effects to change the way the soundtrack plays across the movie?		
			_	
		[	[1]	
	-	n wants to use the movie editing package to alter the way his clips are presented to the person viewing it.	[1]	
mo	vie d	n wants to use the movie editing package to alter the way his	[1]	
mo	vie d	In wants to use the movie editing package to alter the way his clips are presented to the person viewing it.  In this is a second of the person viewing it.  In this is a second of the person viewing it.  In this is a second of the person viewing it.	[1] - [1]	
(b)	lde do	In wants to use the movie editing package to alter the way his clips are presented to the person viewing it.  In this is a second of the person viewing it.  In this is a second of the person viewing it.  In this is a second of the person viewing it.	_	
(b) Wh	lder do do ten the	n wants to use the movie editing package to alter the way his clips are presented to the person viewing it.  ntify <b>one</b> feature of a movie editing package that will allow him to this.  he movie is completed he has to choose appropriate export	— [1]	
(b) Wh	lder do do ten the	n wants to use the movie editing package to alter the way his clips are presented to the person viewing it.  ntify <b>one</b> feature of a movie editing package that will allow him to this.  The movie is completed he has to choose appropriate export is. The movie will be distributed using a website.  by would this method of distribution not be appropriate for a movie	— [1]	
(b) Wh	lder do do ten the	n wants to use the movie editing package to alter the way his clips are presented to the person viewing it.  ntify <b>one</b> feature of a movie editing package that will allow him to this.  The movie is completed he has to choose appropriate export is. The movie will be distributed using a website.  by would this method of distribution not be appropriate for a movie		Question 16

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Place a <b>tick</b> (✓) beside <b>two</b> statements that are true a information.	bout
Statement	Tick (✓)
Information is raw facts and figures that have not bee given a meaning.	en
Information can be produced by processing raw data.	
Information is automatically encrypted when it is produced.	
Information is raw facts and figures that have been gi a context.	ven
	[2

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City High School  Pupil Number: Address: Telephone Number:  DOB:/ How do you travel to school?  LUNCHES? SCHOOL CANTEEN? PUPIL NAME:  [1] Tick Boxes:	Part of the form the school uses is shown below:		Examiner Only  Marks Rema
Address: Telephone Number:  DOB:/_/_ How do you travel to school?  LUNCHES? SCHOOL CANTEEN? PUPIL NAME:  (b) Explain how this data capture form can be improved upon by commenting on each of the following features of form design.  Font:	City High School		
Telephone Number:  DOB:/ How do you travel to school?  LUNCHES? SCHOOL CANTEEN? PUPIL NAME:  (b) Explain how this data capture form can be improved upon by commenting on each of the following features of form design.  Font:	Pupil Number:		
DOB:/  How do you travel to school?  LUNCHES?  SCHOOL CANTEEN?  PUPIL NAME:  (b) Explain how this data capture form can be improved upon by commenting on each of the following features of form design.  Font: [1]  Tick Boxes: [1]  Positioning of text: [1]  Instructions: [1]	Address:		
How do you travel to school?	Telephone Number:		
LUNCHES?	DOB:/		
LUNCHES? SCHOOL CANTEEN? PUPIL NAME:  PUPIL NAME:  Positioning of text:  Instructions:  Total Question	How do you travel to school?		
SCHOOL CANTEEN?  PUPIL NAME:  [b) Explain how this data capture form can be improved upon by commenting on each of the following features of form design.  Font:  [1]  Tick Boxes:  [1]  Positioning of text:  [1]  Instructions:  Total Question			
PUPIL NAME:	LUNCHES?		
(b) Explain how this data capture form can be improved upon by commenting on each of the following features of form design.  Font:	SCHOOL CANTEEN?		
commenting on each of the following features of form design.  Font:	PUPIL NAME:		
Tick Boxes:			
Positioning of text: [1]  Instructions: Total Question			
[1] Instructions: Total Question		[1]	
Instructions: Total Question	Positioning of text:		
			T. 1.1.2
	Instructions:		Total Question

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clas	•		•	nts from his English icle and comment on th		ner Only Remark
(a)	Give <b>one</b> reatask.	ason why instant	messaging woul	d not be suitable for thi	is	
					[1]	
The	e students dec	cide to use a bulle	etin board for the	e task.		
(b)		a bulletin board	•	e sentences which or this task ( <b>not all</b>		
	Offline	Replies	Online	Interactive		
	Bulletin board	ds are not		Not everyone		
	in the group	has to be		at the same time to	0	
	take part in tl	he discussion. Us	sers can comme	nt on the article and		
	read the		from othe	r group members at		
	anytime.			I	[3]	
As Vol	•	son the pupils wi	ll also link with a	nother school using		
(c)	Explain to Ju	de what is mean	t by VoIP.			
				[	[2] Total Qu	estion 18
					[Tur	n over



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			Name	Туре		
			100_0030	GIF Image		
		Į	100_0022	Bitmap Image		
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			100_0023	JPEG Image		
			100_0024	JPEG Image		
res		on from	96 pixels per in	to her website. She changes the changes the solution of the web pages the loading time of the web pages	-	
res	olutio	From to type so	96 pixels per in night this affect ted to?  the list below plauitable for use w	nch to 300 pixels per inch.	he image ge the image	
res	(i)	From to type so	96 pixels per in night this affect ted to?  the list below plauitable for use w	the loading time of the web pagace a <b>tick</b> (✓) beside <b>one</b> other	he image ge the image [1] r graphic file	

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Eime	ear's websit	e will also cor	itairi a video.				Examir Marks	Rema
(c) F	From the lis	st below <b>circle</b>	an appropriat	e video file forr	mat.			
		CSV	AVI	WAV		[1]		
	ear's dad is ges he has t	•	al photographe	r. He sometime	es has to edit	t the		
	Give <b>two</b> re format.	easons why he	e should save h	nis photograph	s in bitmap			
,	1							
-						[1]		
2	2							
_						[1]		
			ctor-based grap		es which			
(e) l	Use words	from the list b	elow to comple aphics ( <b>not all</b>	ete the sentenc	used).			
(e) (	Use words describe ve olution	from the list b ector-based gr <b>objects</b>	elow to comple aphics ( <b>not all</b>	ete the sentenc words will be pixels	resized	. [1]		
(e) (	Use words describe veolution Vector-base	from the list bector-based gr  objects  ed graphics ar	elow to comple aphics ( <b>not all</b> <b>bitmaps</b>	ete the sentenc words will be pixels	resized			
resc	Use words describe veolution  Vector-base The image	from the list bector-based gr  objects  ed graphics are quality does not graphics can be described by the control of the contr	elow to comple aphics ( <b>not all</b> <b>bitmaps</b> re made up of	ete the sentenc words will be pixels	resized	. [1]		
resc	Use words describe veolution Vector-base	from the list bector-based gr  objects  ed graphics are quality does not graphics can be described by the control of the contr	elow to compleaphics (not all bitmaps  re made up of anot depend on a	ete the sentenc words will be pixels	resized	. [1]		
resc	Use words describe veolution  Vector-base The image	from the list bector-based gr  objects  ed graphics are quality does not graphics can be described by the control of the contr	elow to compleaphics (not all bitmaps  re made up of anot depend on a	ete the sentenc words will be pixels	resized	. [1]		

5. A. E. A



20	in t	an owns a recruitment agency. He wants to use a mobile device to keep ouch with the office while he is waiting for a flight at the airport. He mot decide if he should use a 3G or a Wi-Fi connection.	Examine Marks	er Only Remark
	(a)	Describe <b>three</b> disadvantages of both 3G and Wi-Fi and say which technology you would recommend and why.		
		3G		
		Wi-Fi		
		Recommendation		
		[6]		
8105				

<u>a</u>

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SMS	Roaming	MMS	
Video calling	Voice Mail	Flight Mode	
efinition		Mobile Phone Feature	
llows users to send messago other users	ges containing images		
llows users to send and rec	eive calls whilst in		
Allows users to make interaction	tive calls containing		
Allows users to send a messanly to other users	age containing text		
		[4	1
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			Total Questic

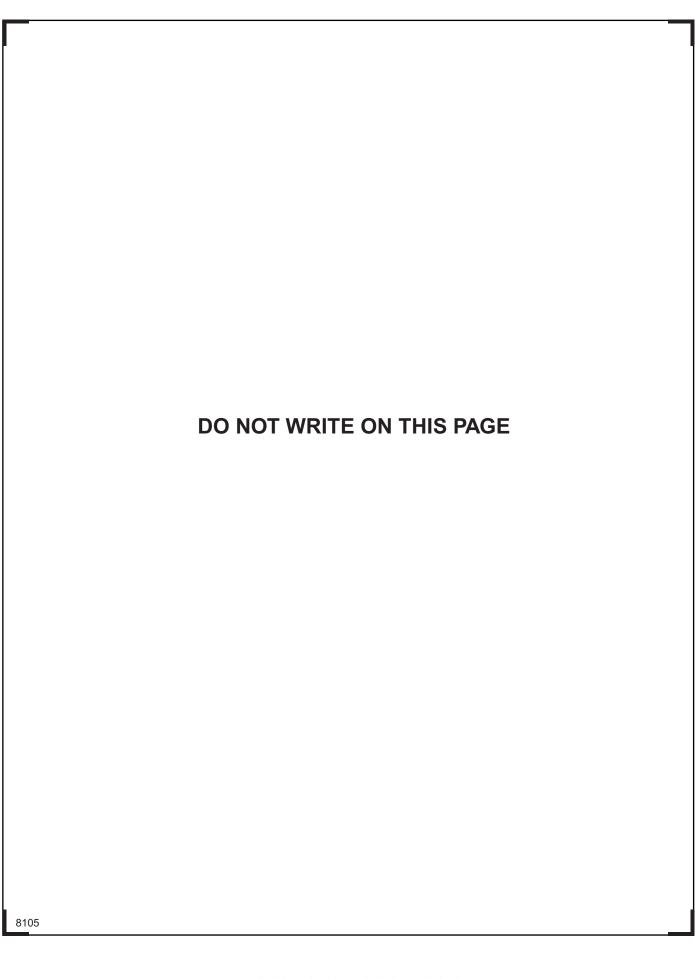
5. A. E. A



21 Using the terms in the list below choose definition in the left-hand column (not al			Examiner Only  Marks Remark
BACKUP HARD DRIVE FII	REWALL	FIBRE OPTIC	
VIRTUAL LEARNING ENVIRONMENT	CACHE	BLUETOOTH	
DATA PORTABILITY	VIRUS	PDF	
TOUCH SCREEN GRAPHIC	S DIGITISER	MIDI	
Definition	Term		
Software designed to protect a network from hacking via the Internet			
A document format which can be made read only			
A software tool designed to deliver courses online			
A type of cable which sends data using light pulses			
An input device which consists of a flat surface upon which the user draws using an attached stylus			
Small capacity memory which operates at high speed			
The ability to transfer data from one system or software application to another without having to re-enter the data			
A program designed to damage a computer system			
A wireless technology which can be used to connect a headset to a mobile phone			
A copy of data currently held on a computer system			
		[10]	Total Question 21
THIS IS THE END OF THE	QUESTIO	N PAPER	Total Question 21

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## DO NOT WRITE ON THIS PAGE

For Examiner's use only			
Question Number	Marks		
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20

Total Marks

**Examiner Number** 

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