



**General Certificate of Secondary Education
January 2012**

ICT

45201

(Specification 4520)

Unit 1: Systems and Applications in ICT

Final

Mark Scheme

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation events which all examiners participate in and is the scheme which was used by them in this examination. The standardisation process ensures that the mark scheme covers the students' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for standardisation each examiner analyses a number of students' scripts: alternative answers not already covered by the mark scheme are discussed and legislated for. If, after the standardisation process, examiners encounter unusual answers which have not been raised they are required to refer these to the Principal Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of students' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

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To Examiners:

1. When to award '0' (zero) when inputting marks on CMI+:

A mark of 0 should be awarded where a candidate has attempted a question but failed to write anything credit worthy.

Insert a hyphen when a candidate has not attempted a question, so that eventually the Principal Examiner will be able to distinguish between the two (unattempted/nothing credit worthy) in any statistics.

2. This mark scheme contains the correct responses which we believe that candidates are most likely to give. Other valid responses are possible to some questions and should be credited. Examiners should refer to a Team Leader off-mark scheme responses that they believe are creditworthy.

1	(a)		digital camera graphics digitiser keyboard/keypad light pen mouse sensor scanner concept keyboard web cam	tracker ball joystick/games controller bar code (reader) graphics tablet laser pen touch screens/pad microphone skype phone	Any 2 x 1 mark	2
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1	(b)		printer (or any named printer e.g. laser printer) Two named printers – 1 mark each monitor/screen/VDU plotter speakerheadphones skype phone Any 2 x 1 mark			2
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1	(c)		memory stick/pen drive/USB drive/stick/pen (Not just USB) hard disk (drive) zip disk (drive) CDR (drive) or DVD-R CD-RW (drive) or DVD-RW RAM memory/flash card dat tape/Magnetic tape (drive) MP3 player/iPod digital projector NOT just CD or disk		Any 2 x 1 mark	2
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1	(d)		Central Processing Unit	Correct Answer Only	1
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1	(e)		Ram is volatile, ROM is not volatile	Correct Answer Only	1
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1	(f)		Sound Card Video card Graphics card Motherboard Fan CD-ROM drive etc. ALLOW other sensible device	Any 1 x 1 mark	1
1	(g)		Hardware – physical parts/devices/components that make up a computer (system) Not just a single example e.g. monitor without explanation Any 1 x 1 mark		1
			Software – programs/set of instructions	Any 1 x 1 mark	1
2	(a)	(i)	D (File Server)	Correct Answer Only	1
2	(a)	(ii)	B (Dial-up modem)	Correct Answer Only	1
2	(a)	(iii)	A (Broadband)	Correct Answer Only	1
2	(b)		LAN – Local Area Network	Correct Answer Only	1
			WAN – Wide Area Network	Correct Answer Only	1
2	(c)		LAN – limited to a small area (house/building etc.) WAN – worldwide OR Allow		1
			LAN – usually cables/hardwired	(1)	1
			WAN – wireless/satellite	(1)	1
2	(d)		A company that offers Internet access to customers for a fee	Correct Answer Only	1
3	(a)		Cheap Easily portable Increasing capacity /can store 'lots' of data Used on a wide range of computers/machines Robust /not easily damaged or broken	Any 2 x 1 mark	2

3	(b)		Byte Kilobyte Megabyte Gigabyte Terabyte	1 mark for these 3 in order	1
			NB if largest to smallest - 1 mark for first and last correct Terabyte Gigabyte Megabyte Kilobyte Byte		1
				1 mark for these 3 in order	1
(Max 2 marks for this)					
3	(c)		The file might be very large /slow down the transfer The file might be too large to be saved on the receiving machine File size may be limited if sent by e-mail Allow to large/big t transfer	Any 1 x 1 mark	1
4	(a)		A14	Correct Answer Only	1
4	(b)		Date	Correct Answer Only	1
4	(c)	(i)	=B5*C5	Correct Answer Only	1
4	(c)	(ii)	=D20-D12	Correct Answer Only	1
4	(d)		AVERAGEUP	Correct Answer Only	1
4	(e)		ROUND – will ‘round’ to the nearest digit (allow whole number) asked for (will round up or down depending on the following digit) Example (enough to gain the mark if correct) e.g.– 12.434 using ROUND to 2 decimal places gives 12.43		1
			ROUNDUP – will always round up to the next highest digit (allow whole number) asked for Example (enough to gain the mark if correct) – 12.434 using ROUNDUP to 2 decimal places gives 12.44		1
4	(f)		<ol style="list-style-type: none"> 1. Check/look/see if the cost in D21/Profit (visual or validation) 2. Reduce cost/number in..... (b5 – b7 or c5 to c7) OR increase the number sold or selling price. (b16 – b18 or c16 to c18) 3. Cells linked by formulae so the profit will change automatically 4. Set up a ‘routine’ in D21 to say profit is above ...? 5. Repeat steps 1 and 2 until cost in D21 is (Ok / acceptable) Allow Goal seeker solutions that cover these points Goal seek by itself scores 1 (2 nd mark from above possible) Any 2 x 1 mark		2

5	(a)		<p>Create folders for each subject More meaningful/sensible/appropriate file names Delete unwanted/needed files Sort folders by name/date etc. Use versions of file names</p> <p style="text-align: right;">Any 2 x 1 mark</p>	1 1								
5	(b)		<p>(use of) colour (use of) sound (use of) images/pictures/graphics/icons (not design/draw) menus windows/pointers position of items on screen/easy to navigate help facilities house style user friendly/easy to use</p> <p style="text-align: right;">Any 3 x 1 mark</p>	3								
6	(a)		J	Correct Answer Only 1								
6	(b)		F	Correct Answer Only 1								
6	(c)		O	Correct Answer Only 1								
6	(d)		P	Correct Answer Only 1								
6	(e)		A	Correct Answer Only 1								
7	(a)		<p>No address given to return the form Box not high/big enough, so cannot fill in details Text difficult to read/too small Too many different fonts used (styles or sizes) Boxes not in line Title field not in a suitable place Favourite type of game – too open/list/tick box better Other information may be needed (e-mail address)</p> <p style="text-align: right;">Any 3 x 1 mark</p>	3								
7	(b)		Bar Codes	Correct Answer Only 1								
7	(c)		Text/call to telephone E-mail (not in data capture form)	Any 1 x 1 mark 1								
7	(d)		<table border="0" style="width: 100%;"> <tr> <td>back/neck problems</td> <td>stress</td> </tr> <tr> <td>headaches/migraines</td> <td>possible radiation from monitors</td> </tr> <tr> <td>eye strain</td> <td>overheating</td> </tr> <tr> <td>epilepsy</td> <td>RSI – wrist/finger problems</td> </tr> </table> <p style="text-align: center;">Any 2 x 1 mark</p>	back/neck problems	stress	headaches/migraines	possible radiation from monitors	eye strain	overheating	epilepsy	RSI – wrist/finger problems	2
back/neck problems	stress											
headaches/migraines	possible radiation from monitors											
eye strain	overheating											
epilepsy	RSI – wrist/finger problems											
8	(a)	(i)	<p>Master Page</p> <ul style="list-style-type: none"> • Use as a 'template' page • More efficient/saves time • Saves time repeating common processes on each page 									

			<ul style="list-style-type: none"> Can be used to create similar/repeat style additional pages <p>NOT Home page</p> <p style="text-align: right;">Any 2 x 1 mark</p>	2												
8	(a)	(ii)	<p>Navigation Bar</p> <p>Why</p> <ul style="list-style-type: none"> Allows faster/easier/simpler/smother movement/navigation around the site Go to any page without having to return to the ‘Home’ page Positioned in the same place, adds professional/attractive/house style look to page <p style="text-align: right;">Any 2 x 1 mark</p>	2												
8	(a)	(iii)	<p>Counters</p> <ul style="list-style-type: none"> See/know how many people visited the site <p>Why.</p> <ul style="list-style-type: none"> Judge popularity of site/band Used to cost/promote/sell advertising <p style="text-align: right;">Any 2 x 1 mark</p>	2												
8	(b)		<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">hotspot</td> <td style="width: 33%;">hyperlink/links</td> <td style="width: 33%;">templates</td> </tr> <tr> <td>layout guides</td> <td>marquees</td> <td>animation</td> </tr> <tr> <td>RSS feed</td> <td>forms</td> <td></td> </tr> <tr> <td>Conversion to HTML</td> <td></td> <td></td> </tr> </table> <p style="text-align: right;">Any 1 x 1 mark</p>	hotspot	hyperlink/links	templates	layout guides	marquees	animation	RSS feed	forms		Conversion to HTML			1
hotspot	hyperlink/links	templates														
layout guides	marquees	animation														
RSS feed	forms															
Conversion to HTML																
9	(a)		Software	Correct Answer Only	1											
9	(b)		All of them	Correct Answer Only	1											
9	(c)		The processing of data immediately upon receipt	Correct Answer Only	1											
9	(d)		Batch processing Interactive Multi-tasking Online Multi-user Allow Windows (any suitable)/ Mac (any suitable)/ DOS etc.	Any 1 x 1 mark	1											
10	(a)	(i)	Feasibility study	Correct answer only	1											
10	(a)	(ii)	Design	Correct answer only	1											
10	(a)	(iii)	Maintenance	Correct answer only	1											
10	(a)	(iv)	Testing	Correct answer only	1											
10	(a)	(v)	Evaluation	Correct answer only	1											

10	(a)	(vi)	Analysis	Correct answer only	1
10	(b)		Interview Questionnaire/survey Observation Documentation	Any 2 x 1 mark	2
10	(c)		Key points <ul style="list-style-type: none"> • Plan/carry out each stage • Review each stage for errors/changes/improvements • Constant/regular reviewing/looping • Feedback/changes from review fed back into earlier/later stages • Repeat cycle at each stage if needed 	Any 2 x 1 mark	2
11	(a)		They will save time by not having to travel to work each day They will be able to work much more flexible hours	Correct answer only Correct answer only	1 1
11	(b)		Lack of collaborative/sharing ideas/problems More easily distracted from the tasks at hand Lack of social contact Less easy to collaborate /more expensive to collaborate Extra home bills/expenses Slower hardware/connectivity Harder/slower to get help if needed Work longer hours/increase stress	Any 2 answers x 1 mark	2
11	(c)	(i)	Copyright (Law)	Correct answer only	1
11	(c)	(ii)	Copyright (Law)	Correct answer only	1
11	(c)	(iii)	Computer Misuse (Act)	Correct answer only	1

11	(d)	<p>No rewardable material 0 marks Not even 1 simple statement relating to possible advantages/disadvantages of online storage.</p>
		<p>Lower mark range 1 – 2 marks There are simple (even vague) statements (1/2/3) relating to advantages/disadvantages online storage. These statements relate to suitable ideas/examples such as those given below.</p>
		<p>Mid mark range 3 – 4 marks At least one advantage and one disadvantage need to be considered. There is evidence of some understanding shown through the use of mostly correct examples that describe/give reasons for a range (3) of advantages and disadvantages of online storage. Examples given are supported by some relevant description/reasoning. These examples will cover a range of ideas/examples such as those given below.</p>
		<p>High mark 5 marks At least one advantage and one disadvantage need to be considered. There is evidence of a clear understanding shown through the use of correct examples that clearly describe/give reasons for a range (3) of advantages and disadvantages of online storage. Examples given are well supported by reasoned arguments. These examples will cover several of ideas/examples such as those given below.</p>
		<p>Read the answer first before considering which level best fits the candidate's answer. Examples Advantages</p> <ul style="list-style-type: none"> • Saves money - Less hardware/storage devices required • World Wide Accessible – online data can be accessed from anywhere in the world with just a computer and an internet connection. • Share data/files images with other staff working from home. • Safety – as the data is OFFSITE, data is more secure from theft, fire or any other damages that might happen to your local storage. <p>Disadvantage</p> <ul style="list-style-type: none"> • Costs involved – initial charge plus ongoing costs. • Less control/flexibility - Since the data is with a 3rd Party, you have less control over it than if it was stored locally • Closure of Online Company – this will cause lots of problems including security and retrieval of your data. • Internet down/problems – cannot access data/files • Security - Since data is online, the accessibility for it is global and so is the security threat. Any hacker will have access to the data as much as you have; only password or encryption to stop them

12	(a)	11	Correct answer only	1
12	(b)		Not a unique identifier/two people have the same surname	1
12	(c)		Faster to enter data More accurate to enter data (as less data) Less storage space needed Any 1 x 1 mark	1
12	(d)		Typically, house number is not a field that involves calculations	

			House could have a name rather than a number Allow text fields can include numbers Any 1 x 1 mark	1
12	(e)	(i)	GY0986, GY1003 Allow any separator and any order Correct answer only	1
12	(e)	(ii)	GY1003, GY1029, GY1111 Allow any separator and any order Correct answer only	1
12	(e)	(iii)	GY0340, GY1198, GY1201 Allow any separator and any order Correct answer only	1
12	(f)	<p>No rewardable material 0 marks Not even 1 simple statement relating to or naming a method of data validation.</p> <p>Lower mark range 1 – 2 marks There are simple (even vague) statements (or just naming methods) relating to data validation. These statements relate to ideas/examples below.</p> <p>Mid mark range 3 – 4 marks There is evidence of some understanding shown through the use of mostly correct examples that explain the need/ways of validating data (2). It should be reasonably clear that validation will check that the data is reasonable / sensible / valid / possible / acceptable. Examples given are supported by some relevant description/reasoning. These examples will cover a range of ideas/examples given below.</p> <p>High mark 5 marks There is evidence of a clear understanding shown through the use of correct examples that clearly explain the need/ways of validating data(2) It will be clear that validation with check that the data is reasonable / sensible / valid / possible / acceptable. Examples given are well supported by reasoned arguments. These examples will cover several of ideas/examples given below.</p> <p>Read the answer first before considering which level best fits the candidate's answer. Examples</p> <ul style="list-style-type: none"> • Named examples of validation – range check, presence check, type check, check digits, look-up lists or similar (LMR 1-2 marks) • Clear explanation of how validation / at least 2 examples of validation would improve the accuracy of data being entered into the database (Mid mark range 3-4 marks or HMR 5 marks) 		
13	(a)		The item you buy will usually take longer to arrive Correct answer only	1
			You cannot inspect in detail the item you are buying Correct answer only	1

13	(b)	<ul style="list-style-type: none"> • Cheaper/quicker in the long run because..... <ul style="list-style-type: none"> ○ Saves lots of their time travelling to the bank ○ Saves money on petrol and putting mileage on the car/ bus fare ○ Saves waiting in a queue in the bank • Do not have to leave the house/travel/from comfort of their home • Can complete transactions 24/7 not just when the bank is open • Can access from 'anywhere' • Can review transactions/transfer money etc. online • Better deals available as you can search a wide range of accounts/banks available <p>NOT just cheaper or faster</p> <p style="text-align: right;">Any 2 x 1 mark</p>	2
13	(c)	<p>Key elements:</p> <ul style="list-style-type: none"> • websites • allow users to create/build on-line profiles, • share information, pictures, blog entries, music clips, etc. • 'talk' /'speak' online • can be related to a shared interest • build social relationships between members/ stay in touch/add friends <p style="text-align: right;">Any 3 x 1</p>	3
13	(d)	<p>No rewardable material 0 marks Not even 1 simple statement relating to possible software or hardware features used to help people with disabilities access ICT systems.</p> <p>Lower mark range 1 – 2 marks There are simple (even vague) statements (1/2/3) relating to software and/or hardware features used to help people with disabilities access ICT systems. These statements relate to ideas/examples.</p> <p>Mid mark range 3 – 4 marks At least one software and one hardware feature needs to be considered. There is evidence of some understanding shown through the use of mostly correct examples that describe a range (3) of software and hardware features used to help people with disabilities access ICT systems. Examples given are supported by some relevant description/reasoning. These examples will cover a range of ideas/examples.</p> <p>High mark 5 marks At least one software and one hardware feature needs to be considered. There is evidence of a clear understanding shown through the use of correct examples that clearly describe a range (3) of hardware and software features. Examples given are well supported by reasoned arguments. These examples will cover several of ideas/examples.</p>	

		<p>Read the answer first before considering which level best fits the candidate's answer.</p> <p>Lots are possible. Below are a few examples;</p> <p>Hardware</p> <ol style="list-style-type: none"> 1. Specialist Input devices e.g. eye tracking devices, head movement devices, voice recognition, large tracker balls, large keyboards, concept keyboard/pictures used as input, Braille keyboards, touch screen devices, foot operated pointing device and many more. 2. Specialist Output devices e.g. Braille printers, voice output, high contrast monitor imaging, etc. <p>Software</p> <ol style="list-style-type: none"> 1. Software that adapts hardware e.g. 'SharpKeys' that turns off selected keys. 2. Word-prediction software (reduce keystrokes) 3. Software in Windows already e.g. slow keyboard repeats etc. 4. Range of specialist software 'tailored' to individual disabilities. <ul style="list-style-type: none"> • Stated examples would only gain a limited number of marks (LMR 1-2 marks) • A description of how at least 3 features would help people with disabilities access ICT systems would gain high marks (HMR 5 marks)
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14	Qu14	No rewardable material	0 marks
		<p>Level 1 Lower mark range</p> <p>Subject Criterion Context There are simple statement(s) about emerging technologies or at least one possible effect of how emerging technologies affect the way in which people and/or organisations operate and work together .This will usually be one valid effect. Examples are supported by very limited descriptions.</p> <p>Quality of Written Communication The candidate has used a form and style of writing which has many deficiencies. Ideas are not often clearly expressed. Sentences and paragraphs are often not well-connected or at times bullet points may have been used. Specialist vocabulary has been used inappropriately or not at all. Much of the text is legible and some of the meaning is clear. There are many errors of spelling, punctuation and grammar but it should still be possible to understand much of the response.</p>	1-3 marks
		<p>Level 2 Lower mid mark range</p> <p>Subject Criterion Context There is evidence of some understanding or use shown by looking at, at least one 'emerging technology' with examples of at least two valid effects of how emerging technologies affect the way in which people and/or organisations operate and work together. This will usually be at least two valid effects. Examples are supported by limited descriptions.</p> <p>Quality of Written Communication</p>	

	<p>The candidate has used a form and style of writing which has some deficiencies. Ideas are not always clearly expressed. Sentences and paragraphs may not be well-connected or at times bullet points may have been used. Specialist vocabulary has been used on a limited number of occasions.</p> <p>Most of the text is legible and some of the meaning is clear. There are some errors of spelling, punctuation and grammar but it should still be possible to understand most of the response.</p>	<p>4-6 marks</p>
	<p>Level 3 Higher mid mark range</p> <p>Subject Criterion Context Both people and organisations need to be considered. There is evidence of a more developed understanding shown through the use of suitable examples that describe more than two effects of how emerging technologies affect the way in which people and organisations operate and work together. Examples are supported by suitable descriptions.</p> <p>Quality of Written Communication The candidate has mostly used a form and style of writing appropriate to purpose and has expressed some complex ideas reasonably clearly and fluently. The candidate has usually used well linked sentences and paragraphs. Specialist vocabulary has been used on a number of occasions but not always appropriately. Text is legible and most of the meaning is clear. There are occasional errors of spelling, punctuation and grammar.</p>	<p>7-9 marks</p>
	<p>Level 4 High mark range</p> <p>Subject Criterion Context Both people and organisations need to be considered. There is evidence of a clear understanding shown through the use of relevant examples that discuss more than two effects of how emerging technologies affect the way in which people and organisations operate and work together. Examples are well supported by reasoned arguments.</p> <p>Quality of Written Communication The candidate has selected and used a form and style of writing appropriate to purpose and has expressed complex ideas clearly and fluently. Sentences and paragraphs follow on from one another clearly and coherently. Specialist vocabulary has been used appropriately throughout. Text is legible and the meaning is clear. There are few if any errors of spelling, punctuation and grammar.</p>	<p>10-12 marks</p>
	<p>Quality of Written Communication Skills The candidate's quality of written communication skills will be one of the factors influencing the actual mark an examiner will give within a level of response. The quality of written communication skills</p>	

		associated with each level is indicated above	
		<p>Read the answer first before considering which level best fits the candidate's answer.</p> <p>Consider the 'emerging technology' given - any suitable. Then look for suitable statements/descriptions/discussion. Ideas (including 'emerging technologies' and possible effects) are given below.</p> <p>Some possible areas;</p> <ul style="list-style-type: none"> • Wide range of very recent 'emerging technologies • Teleworking (in all its forms) – home-based, mobile, telecentres, • Online buying/shopping – 24/7 society, home deliveries • Increased flexibility, flexible hours, home working • Size of workforce, jobs loss because of introduction of ICT (unemployment), new jobs being created, mainly in ICT. • Location of workplace, centralised, out of town, home working, mobile computing. • Change in jobs, as with size of workforce but also training and retraining issues. Plus job satisfaction, ease of tasks etc • Video conferencing - work together from anywhere in the world/home (Internet). Can communicate/collaborate from anywhere in the world. • Share resources - from anywhere (online storage) • Less face to face communication. 	

15	Qu15	No rewardable material	0 marks
		<p>Level 1 Lower mark range</p> <p>Subject Criterion Context There are simple statements about at least one possible hazard or method of avoiding the hazard. This will usually be one/two valid hazard/method of avoiding the hazard. These statements are limited but would refer to possible hazards such as those outlined below.</p> <p>Quality of Written Communication The candidate has used a form and style of writing which has many deficiencies. Ideas are not often clearly expressed. Sentences and paragraphs are often not well-connected or at times bullet points may have been used. Specialist vocabulary has been used inappropriately or not at all. Much of the text is legible and some of the meaning is clear. There are many errors of spelling, punctuation and grammar but it should still be possible to understand much of the response.</p>	1-3 marks
		<p>Level 2 Lower mid mark range</p> <p>Subject Criterion Context There is evidence of some understanding shown by giving examples of at least two valid possible hazards and limited methods of avoiding the hazards. Examples are supported by limited descriptions.</p>	

	<p>Quality of Written Communication The candidate has used a form and style of writing which has some deficiencies. Ideas are not always clearly expressed. Sentences and paragraphs may not be well-connected or at times bullet points may have been used. Specialist vocabulary has been used on a limited number of occasions. Most of the text is legible and some of the meaning is clear. There are some errors of spelling, punctuation and grammar but it should still be possible to understand most of the response.</p>	<p>4-6 marks</p>
	<p>Level 3 Higher mid mark range</p> <p>Subject Criterion Context There is evidence of a more developed understanding shown through the use of suitable examples that describe more than two possible hazards and methods of avoiding the hazards. Examples are supported by suitable descriptions.</p> <p>Quality of Written Communication The candidate has mostly used a form and style of writing appropriate to purpose and has expressed some complex ideas reasonably clearly and fluently. The candidate has usually used well linked sentences and paragraphs. Specialist vocabulary has been used on a number of occasions but not always appropriately. Text is legible and most of the meaning is clear. There are occasional errors of spelling, punctuation and grammar.</p>	<p>7-9 marks</p>
	<p>Level 4 High mark range</p> <p>Subject Criterion Context There is evidence of a clear understanding shown through the use of relevant examples that discuss more than two possible hazards and describe methods of avoiding the hazards. Examples are well supported by reasoned arguments.</p> <p>Quality of Written Communication The candidate has selected and used a form and style of writing appropriate to purpose and has expressed complex ideas clearly and fluently. Sentences and paragraphs follow on from one another clearly and coherently. Specialist vocabulary has been used appropriately throughout. Text is legible and the meaning is clear. There are few if any errors of spelling, punctuation and grammar.</p>	<p>10-12 marks</p>
	<p>Quality of Written Communication Skills The candidate's quality of written communication skills will be one of the factors influencing the actual mark an examiner will give within a level of response. The quality of written communication skills associated with each level is indicated above</p>	
	<p>Read the answer first before considering which level best fits the</p>	

	<p>candidate's answer.</p> <p>Some possible examples</p> <p>Hazards – a wide range of online hazards are possible. Including;</p> <ul style="list-style-type: none">• Phishing/scam e-mails• Mirror-image (look alike) websites• Spyware• Viruses• Hacking• 'Stay safe' issues <p>Methods of avoiding</p> <ul style="list-style-type: none">• Don't download from unknown sources• Treat all e-mail attachments as suspicious• Use firewalls (hardware/software)• Virus protection/anti-virus software• Web browser security – maximise or change• Block pop-ups• Keep software up-to-date• Keep wireless networks secure• Follow 'stay safe' guidelines	
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