

GCSE MARKING SCHEME

INFORMATION AND COMMUNICATION TECHNOLOGY

SUMMER 2015

INTRODUCTION

The marking schemes which follow were those used by WJEC for the Summer 2015 examination in GCSE INFORMATION AND COMMUNICATION TECHNOLOGY. They were finalised after detailed discussion at examiners' conferences by all the examiners involved in the assessment. The conferences were held shortly after the papers were taken so that reference could be made to the full range of candidates' responses, with photocopied scripts forming the basis of discussion. The aim of the conferences was to ensure that the marking schemes were interpreted and applied in the same way by all examiners.

It is hoped that this information will be of assistance to centres but it is recognised at the same time that, without the benefit of participation in the examiners' conferences, teachers may have different views on certain matters of detail or interpretation.

WJEC regrets that it cannot enter into any discussion or correspondence about these marking schemes.

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GCSE ICT - UNIT 1: UNDERSTANDING ICT

Mark Scheme - Summer 2015

Question	Answer	Max mark
1(a)(i)	One mark for each for each correct answer	4
	Word Art	
	3D/Shadow	
	ClipArt / picture / image/ graphic	
	Bold Font (NOT bold or font by itself) Accept Bold text/bold letters Italic Font / Italic text (BUT NOT text by itself, NOT italic by itself) Different	
	font styles / font styles (Not different fonts/Not font types)	
	Centre text	
	Font size / text size	
	Bullet points	
	AutoShape	
	Coloured background/shading	
	Text box/border	
	Overlay Tabs/Tab	
	stops	
	Superscript	
1(b)(i)	Hypertext	1
	Hyperlink	
	Hotspot	
	Icon	
	Bookmark	
	Anchor	
	Action button	
	Accept keyboard actions e.g. Click space/arrow	
	NOT Buttons	
	NOT Timers	
1(b)(ii)	One mark for each correct answer	2
	Sound	
	Pop up comments on images	
	Video Animation	
	Scrolling marques	
	Transition	
	Timings /Sequencing	
	Interactive elements	
	Embedded games	
	Smart tool add-ons e.g. google maps, email facility, questionnaire etc.	
	Condone Colour scheme for visually impaired – no red/ green but not just	
	colour/colour schemes	
	Any reasonable answer	
	NOT DTP features or Navigation features	

Question	Answer		
1 (c)	1 mark for type of software x 2 1 mark for use (purpose or data not audio To award example mark, example MUST		mark 4
	Software	Example	۱ ا
	Database	Store details of students / teachers to keep track of who is going on the trip	
		NOT just 'store data' NOT info NOT keep data safe	
	Spreadsheet	 How much money has been paid / To keep track of the money paid To produce a graph of payments 	
	Web authoring / Website software	Create / maintain website to advertise the trip	
	Word Processing software	To create letters to send to parents to inform them about the trip	
	Video Software	To show videos of the activities on the trip	
	Sound	To record sound clips of students recommending the trip	
	Email	To send emails promoting the trip]
	Any reasonable example NOTE parts must match but do not penalise NO BRAND NAMES	e second if first part wrong	3
-	1 2 5 \sqrt{7} \sqrt{8}	3 √ 6 9	
	(3,5,7) Make sure only one tick in each row is selec	eted or no marks for that row.	

Question	Answer	Max mark
3 (a)	One mark for each correct tick:	3
	Output	
	Input	
	Output	
3 (b)	Secure Digital (SD) card	1
. ,	Compact Flash (CF) card	
	Memory card	
	Memory stick	
	USB	
	Solid State Drive (SSD) Magnetic	
	disc	
	Tape storage	
	Optical storage (DVD/CD/BluRay)	
	Condone: Cloud storage	
	Not storage card	
3 (c)	Photos can be edited	2
	No need to get photos developed in store	
	Can store hundreds of photos – saving storage space	
	Can be uploaded <u>faster</u>	
	Better quality images can be taken.	
	Can enlarge pictures to work with fine detail	
	Can print out larger size prints without loss of quality Only	
	need to print out the required images	
	The is no film that can expire	
	Memory is cheaper than film Can	
	discard unwanted images	
	You can see the image	
	immediately	
4 (0)	Can be shared easily e.g. on social media/email	1
4 (a)		1
4 (b)	DOB (Not Age)	1
	Telephone Number	
	Emergency Contact Number / Name Email	
	Address	
	Form Tutor House	
	Special diet/ Vegetarian?	
	Passport No.	
	Any reasonable answer	
	NOT Postcode, NOT Town/Street/House Number/City	
4 (c)	The school have issued each with a student ID (1)	2
	To uniquely identify the students / unique identifier / uniquely identifies each record (1)	
4 (d)	One mark for the data type:	2
(,	Text / alphanumeric / string	
	One mark for the validation technique:	
	Format check / input mask / MUST begin with a letter	
	Presence check	
	LL## #LL/ L## #LL Accepted not expected	
	LL## #LL/ L## #LL Accepted not expected	

Question	Answer	Max mark
	On screen keyboard Narrator to read out text / Speech synthesis Change / Edit colour schemes (must say what or why) e.g. for dyslexic pupils/avoid red and green colour combinations Magnify text / icons / fonts Voice recognition Change mouse settings Change contrast /change brightness Enlarging icons Any reasonable answer for visually impaired and desktop environment NOT Hardware	2
5 (a) (ii)	Move Copy / copy and paste /shortcut Delete Rename / use sensible file names Create Extract Sort Group Compression Organising into folders and subfolders	2
	Braille keyboard Pull/blow tube Foot mouse Concept keyboard Eye motion detector Microphone Tracker ball Joystick Touch sensitive screens Ergonomic keyboards Cognitive headset Any reasonable input device / not laptops	3
5 (c)	Maths apps to teach about angles To learn French pronunciation Quizzes/ Tests on History Spelling game Tutorial on science experiment Any reasonable answer NOT Games/Tests /subject on its own	1

Question	Answer	Max mark
6 (a)	One mark each for any three of:	3
	 Year 9/Year12 option choices to decide on grades and subjects available. 	
	Timetable software to allocate teacher specialisms to subjects	
	Examination entries	
	SEN / Special Educational Needs	
	Finance / Budget	
	 Library administration – see how many of a certain book are ins tock 	
	Tracking behaviour	
	Pupil progress – track high achievers	
	 Pupil contact details – to see when they were last updated 	
	Spotting truancy / attendance patterns	
	Sending letters/newsletters to parents/ School announcements	
	Cafeteria administration	
	Taking registers	
	Update school calendar	
	Any reasonable answer	
	NOT anything to do with VLE / not any action instigated by the student	

Question	Answer	Max mark
6 (b)	Any method and matching advantage and disadvantage (x2) from: Smart Cards / Swipe cards Advantages	2X3
	Can be used for many other school facilities – e.g. library, canteen and access to buildings Cost can be lower than other methods of registration Instant registration / results get sent to office immediately / real time Relatively cheap method of registration Disadvantages	
	Can be lost easily Can be used by pupil's friends to swipe them in / truancy	
	Biometric Methods Fingerprint (thumbprint) recognition / retinal scanning / iris recognition ONLY allow one biometric response	
	Advantages Unique Cannot forget or lose it like a card No- one else can register for you Real time registration Disadvantages Expensive scanners Privacy issues / misuse (DPA) Dirt causes problems Hygiene issues	
	OMR Mark made on sheet about whether absent or present Advantages Cost can be lower than other methods of registration Disadvantages Damaged sheets or sheets with extra marks causes delays / have to be entered manually Advantages Can be accessed by all teaching staff Disadvantages Takes up teaching time / staff time due to completing forms and taking to office Staff training	
	Others include RFID tags or radio systems NOT spreadsheet / database to register pupils One mark for any of the general advantages and disadvantages	
	General advantages applying to all systems Accurate attendance figures Reduces truancy Attendance figures worked out automatically Always know where pupils are Can study trends and patterns of attendance / know if pupils are frequently late and absent Automatic SMS messages to parents 'Frees up teachers time' only if well qualified General Disadvantages Reliance on system NO repeated advantages and disadvantages	

Question		Answer	Max mark
7	One mark for each	prevention	3
	Health Hazard	Matching Prevention	
	Eye Strain	Focus on distant object	
		Blinds to protect sun glare	
		Screen filters	
		Take regular breaks	
	Back Strain	NOT eye tests	
	Back Strain	Use adjustable chairs	
		Take regular breaks Foot stool / rest	
		NOT comfortable chair	
		NOT comfortable chall	
	Repetitive Strain	Wrist and feet supports / arm	
	Injury	supports	
		Ergonomic keyboards	
		Regular joint exercise	
		Key in with your wrist straight	
		NOT just 'take breaks' must have	
		time element	
	All three prevention	ns must be different – no marks for repeated prevention.	
8 (a)	Exam 1		1
8 (b)	С		1
8 (c)	=AVERAGE(E3:E9)	or AVG(E3:E9)	1
· (·)	=SUM(E3:E9)/7	01 710 0(10:10)	_
	=(E3+E4+E5+E6+E7	7+F8+F0\/7	
	_(L3+L4+L3+L0+L1	7+L0+L9)/1	
	Accord only compact for		
	Accept any correct for		
	that works and also	/ Or ÷ Allow If = not	
8 (d)	present IF		1
8 (e)	Automatic recalculati		2
	Accurate calculations		
	What if investigations		
	Different output form Faster to sort into or	ats/graphs	
	Search for all studen		
8(f)	=IF(F3>=\$B\$1,"Pass	s","Fail")	1
` '	Allow no = before IF	•	
	(must have = after >		
	Must have " " around		

Question	Answer	Max mark
	Three marks for any advantage to customer from:	4
	Do NOT accept anything which could be done by phone	
	Avoids double booking (ONLY accept once)	
	Can book 24/7 (ONLY accept once)	
	Select seat	
	Compare prices to get best deal	
	Easier for disabled who don't have to leave home to book Read	
	online reviews before booking	
	Can check availability before booking	
	Save on travel costs (must be qualified) e.g. of going to the venue to book Save	
	travel time (must be qualified) e.g. rather than going to the venue to book On-	
	line discounts	
	Can select alternative performances	
	Can get advanced notification and pre general release options	
	Can set up online quick buy accounts so faster to buy tickets	
	NOT - just faster/faster to buy	
	NOT - just easy/'easier to book'	
	NOT - 'do not have to leave the comfort of your home'/'do it from home' must be qualified	
	One mark for disadvantage to customer from:	
	Credit card fraud	
	Fake websites	
	Restricted viewing	
	Hacking into customers account	
	Spam	
	Phishing websites	
	Lack of customer support when things go wrong	
	<u>Timed ou</u> t before transaction is complete	
	Crash due to <u>overload</u>	
	Crash due to <u>cyber attacks</u>	
	Software system errors e.g. being charged twice by system	
	Not Booking fees Not Do not have the Internet Not Do not have a credit card / email account	
9 (b)	2 – Double keying	1

10 (a) Award marks for one advantage and one disadvantage 1 mark each

always connected / no need to connect / CONDONE faster connection speed

2

- can use telephone at the same time
- much higher bandwidth / data transfer rate
- can stream video and radio in real time
- can use wireless / can use anywhere round the house
- can videoconference
- faster to upload/download web pages / faster to upload/download files / faster to access the internet / browsers will find search results more quickly
- multiple device interconnectivity for sharing data

DO NOT GIVE mark for;

It is faster/quicker – must be qualified with a reason why, i.e. faster to ...

It is wireless

Can trip over wires

You can connect many computers to broadband but only one to dialup.

Anything to do with cost

Disadvantage

Expense – high monthly subscription costs

Not available everywhere

Blindspots

DO NOT accept opposites

Do Not accept general advantages or disadvantages of using internet

Question	Answer	Max mark
10 (b) (i)	Pay per view	2
	Voting (e.g. talent shows)	
	Online Betting	
	Online Dating	
	Games/Gaming	
	Shopping	
	Catch up TV	
	Browsing the internet Streaming	
	Downloading apps	
	Social networking	
	Select game to watch	
	Choose camera angle	
	Pause live TV	
	Record TV programmes	
	Any reasonable answer	
	Not -normal television services	
	Not -get lots of channels	
	Not – names of programmes	
	Not general phrases e.g. music / tv / video / films by itself	
10 (b) (ii)	Any three of the following:	6
	Paedophiles / Stalkers / groomers - may gain access to the images Sharing too much information -burglars can see holiday status updates Lack of privacy – anyone can see your personal information Identity theft – people can steal your images and information Cyberbullying – huge problem and out of school hours usually Addiction – living in a virtual not the real world Inappropriate material – violent videos and images can be upsetting or cause bad behaviour	(3x2)
	One mark for three of:	
	Set access rights	
	Set passwords	
	Set up privacy settings	
	Only accept known friends	
	Use net nanny software	
	Pop up blocker	
	Parental controls / locks	
	Monitor use/ keep computer in living room	
	Check history	
	Block sites	
	Use a filter on certain sites	
	Internet security software	
	NOT Hacking	
	NOT Junk Mail	
	NOT Junk Mail NOT Viruses	

Question	Answer	Max mark
.,	3D Printing – To print a musical instrument Augmented reality / virtual reality – to overlay a game into the real world Full immersion games – provides the feeling of being 'in' the game Wearable technology – allows access to services via clothing / watches New interface developments – voice commands on phones / iris recognition New technological development e.g. curved TV etc, 4K TV Robotic developments if related to home entertainment e.g. drones Any reasonable answer related to home entertainment	2
	NOT Email NOT Cloud computing NOT Mobile phones by itself No Brand names e.g. Xbox Not WiFi by itself Not 3D TV by itself need further explanation of new features	

Question		Answer		Max mark
11	how two different control system the output device and a specific Candidates discuss advantages appropriate terminology and acceptate Candidates deschools and list some advantage few errors in spelling, punctuation	example. and disadvantages of control systemate spelling, punctuation and gescribe some aspects of how contest and disadvantages, but respon and grammar are a brief description of how contest and disadvantages. The respontation and grammar.	es include details of the sensors, stems. They use grammar. trol systems are used in nses lack clarity. There are a trol systems are used in	
11 (a)	Guidance One mark for each different us For each control system a mar For each control system a mar No marks for duplicated senso Four marks for describing adv systems in a school. Indicative content	tching sensor must be given (l tching output device must be o ors or output devices	Max 2) given (Max 2)	
	Sensor	Control System / Process	Output Device	
	Movement / Pressure / Passive infrared / Light beam	Burglar alarm to detect out of hours visitors	Speaker Light	
	Movement / Pressure /	Burglar alarm to detect out of hours visitors To automatically open doors	Speaker	6
	Movement / Pressure / Passive infrared / Light beam Pressure Smoke detector (Optical, Heat, Ionisation)	Burglar alarm to detect out of hours visitors To automatically open doors To detect a fire in the school	Speaker Light Motor Motor/ actuator Sprinkler	6
	Movement / Pressure / Passive infrared / Light beam Pressure Smoke detector (Optical, Heat, Ionisation) Motion / Movement	Burglar alarm to detect out of hours visitors To automatically open doors To detect a fire in the school To turn lights on	Speaker Light Motor Motor/ actuator Sprinkler Light	6
	Movement / Pressure / Passive infrared / Light beam Pressure Smoke detector (Optical, Heat, Ionisation)	Burglar alarm to detect out of hours visitors To automatically open doors To detect a fire in the school	Speaker Light Motor Motor/ actuator Sprinkler	6
	Movement / Pressure / Passive infrared / Light beam Pressure Smoke detector (Optical, Heat, Ionisation) Motion / Movement Sun Light	Burglar alarm to detect out of hours visitors To automatically open doors To detect a fire in the school To turn lights on Flood lights turn on when no day light is detected	Speaker Light Motor Motor/ actuator Sprinkler Light	6
	Movement / Pressure / Passive infrared / Light beam Pressure Smoke detector (Optical, Heat, Ionisation) Motion / Movement	Burglar alarm to detect out of hours visitors To automatically open doors To detect a fire in the school To turn lights on Flood lights turn on when no day light is detected	Speaker Light Motor Motor/ actuator Sprinkler Light	6

Question	Answer		Max mark
11 (b)	For maximum marks must have at least one advantage and one disadvantage. Advantages of control systems: Saving on heating / lighting costs Increases security in a school / more secure / increased safety Operates 24/7 No human interaction needed Automatic doors allow easier access for the disabled Disadvantages of control systems: Initial cost of equipment/ expensive to setup Over reliance on the system Maintenance costs		4
	тот	ΓAL	80

UNIT 3 - ICT IN ORGANISATIONS

_			1
1	INPUT OUTPUT		
	Graphics tablet	1	
	Speaker 3 4√	1	
	Web cam ₅√ 6	1	
	Mouse 7√ 8	1	4
			4
2	 Name of topology (Bus / Line / Ring / Star / Mesh) Topology configuration and workstations (PC / Computer) labelled 	1 1	
	1 opology configuration and workstations (1 o / compator) labelled		
	MAX of 1 mark if name and diagram do not match		
	MAX of 1 mark if topology hasn't been named, but diagram represents a		
	known topology and has been labelled		2
3a			
	BITMAP VECTOR		
	Graphics can be scaled up without	1	
	loss of quality.		
	1000 of quanty.		
	Graphics are made up of pixels.	1	
	Graphics are made up of pixels.	'	
	Graphics that use points, lines,		
	curves, and shapes stored as	1	
	mathematical equations.		
	The larger the graphic, the more pixels are needed and so the file size	4	
	becomes larger.	1	
	becomes larger.	1	
	If small graphics are enlarged, the	•	
	graphic can become blurred.		
			5
			5

3bi	Optimisation is the reduction of the <u>file size</u> / <u>compression</u> of the graphic. (NOT size / change file type)	1	
	(1401 Size / Change me type)	1	
	Reducing the quality of the graphic / reducing the number of colours /		
	reducing the resolution.		
	NOT change file format unless qualified, e.g. change to jpeg to reduce		
	the quality of the image		
			2
3bii	Any one of:	1	
	Faster uploads/downloads		
	Saves memory / storage space		
	NOT reduces file size		
	NOT 'saves space'		1
4a	Rotoscoping	1	
	Claymation / stopmotion	1	
	Tweening (accept Tween) / Motion tween / Shape tween	1	
41	NOT key-framing		3
4b	Previous frames are still visible	1	
	Anyona of	4	
	Any one of:	1	
	to help plan the next frame track matter of an abject.		0
10	track motion of an object A start board is a plan / design 1 more.	4	2
4c	A story board is a plan / design – 1 mark	1	
	Any one of:		
		1	
	Frame-by-frameComic book	'	
	Scene-by-scene Detailing key elements		
	Detailing key elements Sequence for the second control of		2
F 0	Sequence/order of events Musical Instrument Digital Interface / MIDI	1	1
5a	Musical Instrument Digital Interface / MIDI	1	ı

5b	Can award marks for a mixture of uses and advantages.	3	
	1 mark for each advantage:		
	Can investigate different effects		
	Can add instruments		
	 Instruments can be recorded and the music converted into musical 		
	score		
	Music can be recorded and played back		
	Allows the user to print their own music		
	 Cheaper to produce music than to hire a music studio / service / facilities 		
	 Allows music to be stored <u>digitally</u> NOT 'You can save it' 		
	 Can use different instruments (without having to purchase them) 		
	Music can be edited		
	 Music files can be compressed / optimised (to save memory / faster transmission) 		
	No need to be able to play an instrument to compose music.		
	1 mark for each distinctly different example of music editing, e.g. auto-		
	tuning, change tempo, change volume level (fade/boost), overlay tracks		
	(mix music) / layering, enveloping, (sound effects), cropping, filters,		
	looping, join two clips together, splicing etc.		3
5c	Computer signal <u>digital</u>	1	
	Speakers play <u>analogue</u> signals	1	2
5d	Benefit: Better quality	1	
	Drawback: Larger file size / Downloads/uploads take longer	1	2
6a	Tick (✓)		
		1	
	GUI consists of Windows, Icons, Menus and Pointers.	'	
	GUI is less demanding on memory compared with a		
	text-only interface.		
	GUI allows you to customise your desktop.	1	
	GUI do not allow the use of an on-screen keyboard.		
			2

6b	Biometric: Finger(print)/retina scanner / Microphone / Camera Gain access to a room / computer / mobile device Pay for dinner through cashless school dinner system Prevent crimes by automatically identifying individuals. NOT just 'security' – needs specific example.	1 1	
	 Voice driven: Microphone Issue commands with specific example, e.g. ask mobile phone a question, increase volume on device Voice-to-text conversion, to dictate a letter on a word processor Specific examples of aiding accessibility. NOT biometric security examples. MUST be uses and not advantages. 	1 1	
	Any reasonable suitable answers		4
6ci	Command line / CLI	1	1
6cii	 Any two of: Quicker to type commands (NOT 'quicker' must be qualified) Quicker to input commands as shortcut keys can be used More suitable for expert users 	1	
	Little memory (RAM) needed		
	Little storage space neededLittle processing power needed		
	 No need for expensive hardware, e.g. graphics cards, monitors etc. 		2
7a	URL	1	1
(i)			
7a (ii)	HTML	1	1
7a (iii)	Hosted on a web server	2	2
7b	Home page:	1	
	The first / main /default page of a website The first page to lead when you approved browner.		
	The first page to load when you open your browser.		
	Hotspot:	1	
	A graphic / area of a graphic - that is hyperlinked.		
7c	NOT Wi-Fi hotspot Any one of:		2
70	They provide a quick way of creating web pages / all the developer has to do is to fill in their own content	1	
	They supply the structure/layout of the website They spaying consistency throughout the website / house style		
	They ensure consistency throughout the website / house style.		
	NOT 'looks professional'		1
7d	Leader board	1	1

8a	Any two of:		
Joa	More accurate readings	2	
	Readings are taken automatically	-	
	On the Later of the Color of th		
	·		
	 Can keep going 24/7 Doesn't make mistakes / no human error 		
	Data can be analysed automatically		
	Can be used in hazardous situations		
	Takes up less physical storage space (compared with manual data)		
	logging on paper)	2	
	No / little human interaction required.		
	Any two of:		
	Initial cost of logging equipment		
	If equipment fails / malfunctions data could be lost / not recorded		
	Calibration of sensors		
	Reliance upon equipment		
	Only takes readings at logging intervals. If something unexpected		
	happens between these recordings then this will not be logged.		4
8bi	Program (software)	1	
	Simulates a real life scenario / controlled virtual environment	1	2
8bii	Any two of:	1	
	Cheaper than using a real aircraft / fuel cost	1	
	Safer as life is not at risk if 'crash' occurs		
	Can create scenarios that are unlikely to happen in real life		
	Provides training / practice opportunities for pilots / practice		
	If things go wrong, you get a second chance		
	Can create 'what if' scenarios to test a pilot under certain conditions		
	Provides feedback on pilot performance.		2
8	Not always 100% accurate	1	
biii	Mistake in the model can result in inaccurate simulation (GIGO)		
	Initial set-up costs		
	Staff training		
	Simulation models can't completely re-create real-life situations.		
	NOT 'hardware failure'		1
9a	Diagnose a car's fault	1	
	Can remap an engine		
	Suggested remedial actions, e.g. replace clutch		1

		, ,	
9b	 Any two of: The computer can store far more information than a human The computer does not 'forget' or make mistakes / less human error Data can be kept up-to-date The expert system is always available 24 hours a day and will never 'retire' NOT just '24/7' The system can be used remotely, so rural areas or even poorer third world countries have access to experts Provides accurate predictions with probabilities of all possible problems with more accurate advice Can be used to train mechanics. 	1 1	2
0.0	NOT medical advantages	1	2
9c	Any two of:		
	Initial cost	1	
	Not intuitive / does not adapt well to ambiguous problems	1	
	Some mechanics could be de-skilled by over dependence upon		
	 computer advice Fewer mechanics could be needed 		
	Dependent upon the correct information being given GIGO Cost of keeping the system up to date.		
	 Cost of keeping the system up-to-date Mechanics would require training to use the system. 		
	iviectianics would require training to use the system.		
	NOT medical disadvantages		2
9d	Computer systems performing tasks normally requiring human	1	
	intelligence		
	Learning computers		
	Accept computer that thinks like a person		
	NOT computer that carries out human tasks		1
10a	Using remote / externally hosted / 3 rd party servers to store / manage	1	
	/ process data		
	Storing data via the Internet.		1
10b	Any one of:		
	File accessibility / remote access / global access to files	1	
	Convenient as all files are stored in one location		
	• Share files		
	Collaborative working Consistent distances.		
	Can extend storage (Automotic) be also up		
	(Automatic) back-up Con was absorber/mare streamlined workstations.		
	Can use cheaper/more streamlined workstations Den't peed to buy large, dedicated convers.		
	Don't need to buy large, dedicated servers Source on own storage angel / least files stored on own hard drive.		
	Saves on own storage space / less files stored on own hard drive. NOT 'easy to access'		
	NOT 'easy to access'		1
1			

10c	Any one of:		
	Security issues with storing personal data	1	
	Data stored in the cloud may be accessed by a hacker		
	Viruses uploaded to the cloud could destroy data		
	Viruses can be more easily spread via the cloud		
	Data integrity can be an issue when several people are working on		
	the same file.		
			1
11	One mark for each, up to a maximum of four for each section		
	Advantages to organisation		
	Online catalogues are more easily updated		
	Fewer (retail) staff needed		
	Ability to reach customers / sell 24/7		
	Global marketplace means customers from around the world		
	Fluid pricing – easy to change prices from day to day		
	Low start-up and running costs compared to traditional stores.		
	Advantages to customers		
	Ability to order goods 24/7 / buy 24/7		
	Cost savings are passed to customers with cheaper goods		
	Online deals		
	Allows disabled people to do their own shopping		
	Saves travel time		
	Saves travel costs		
	Greater choice of goods		
	Price comparisons		
	Read reviews		
	Can listen to samples before you buy		
	Faster to find products using search engines		
	Instant downloads of videos / books / music / games / apps		
	Online tracking of orders		
	Reminder emails when goods in stock.		6

- 12 Video conferencing is a meeting conducted
 - using audio and video (speak and see) MUST have both audio and video
 - over a network (Internet).

1

1

Advantages and disadvantages

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6 - 8 marks

8

The candidate has:

- shown clear understanding of the requirements of the question and a clear knowledge of the indicative content. Clear knowledge is defined as a response that provides six to eight relevant detailed points from the indicative content, and a maximum of six advantages or disadvantages.
- addressed the question, appropriately describing advantages and disadvantages of video conferencing.
- used appropriate technical terminology, referring to the indicative content accurately
- used accurate spelling, punctuation and grammar.

4 - 5 marks

The candidate has:

- shown adequate understanding of the requirements of the question and a satisfactory knowledge of the indicative content. Satisfactory knowledge is defined as a response that provides four to five points from the indicative content
- addressed the question, describing advantages and disadvantages of video conferencing
- used appropriate technical terminology referring to the indicative content
- mainly used accurate spelling, punctuation and grammar with some errors.

1 - 3 marks

The candidate has:

- attempted to address the question but has demonstrated superficial knowledge of the indicative content. Superficial knowledge is defined as a response that provides one to three points from the indicative content
- used limited technical terminology referring to the indicative content
- given a response where there are significant errors in spelling, punctuation and grammar.

0 marks

Response not credit worthy or not attempted.

Indicative content

Advantages (Up to a MAX of 6 marks)

- No expenses for travelling to meetings
- No time wasted travelling
- Convenient for people with a disability

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- No need for long journeys / traffic / stressful commutes
- Meetings can be fit around other commitments
- Employees can conduct a meeting any time of day
- You can have a 'meeting' with people from many different offices / countries without any of them having to travel
- You can see people as well as hear them. This means you can see their body language which you can't do with a telephone call
- You can all view a document on the screen at the same time. People can work together and add their ideas
- Ideas and knowledge can be communicated between all those at the meeting very quickly and responses gathered.

NOT 'keep in touch with friends and family' – must be related to an organisation

Disadvantages (Up to a MAX of 6 marks)

- Video conferencing facilities can be expensive
- A very reliable, fast data internet connection is needed
- Even with a fast connection, there might be a slight delay between responses / poor quality video feed
- If the hardware breaks down, participants cannot 'attend' the meeting
- People could be in different time zones around the world. This might mean that some people have to stay up through the night in order to attend the meeting
- The video camera might not be able to see all parts of the room at the same time
- There is no substitute for a face-to-face meeting in getting to know someone
- Video conferencing calls may be hacked.

TOTAL 80

GCSE ICT MS Summer 2015



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