

Mark Scheme (Results)

Summer 2012

GCSE ICT (5IT01)
Unit 1: Living in a Digital World

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General Marking Guidance

- All candidates must receive the same treatment.
 Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.
- Candidate can be credited where they have given two or more correct responses in a single answer space, but have given incorrect or blank responses elsewhere.

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
1 (a) (i)	Console C			
				(1)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
1 (a) (ii)	Console D			4.13
				(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (a) (iii)	 Any two reasons from: Hand-held/small/light Has a built-in display/don't need a separate screen Glasses not needed for 3D display Controls/controller built-in / no other equipment needed Uses battery power Does not use a disc drive /disc No wires 	Portable		(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (b)(i)	 Any one from: CD / DVD / Blu-ray drive Hard drive / Removable storage Controller (e.g. wireless controller / steering wheel / joystick / remote control / balance board / Move / playstation eye) Activity monitor (e.g. heart rate) Headset / headphones / microphone / speakers Keyboard / keypad 	Webcam	Brand names such as Kinect are acceptable	
	 Motion sensor (e.g. Kinect) 			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (b)(ii)	 Any two from: Bluetooth WiFi / wireless USB / serial cable / Firewire / Thunderbolt Infrared / IrDA Line in / Line out / minijack / headphone socket/plug AV cable/ composite/ RCA/ RGB/ SCART/VGA etc HDMI 	Wire/wires/cables (without specifying type)	'Wireless' is an acceptable answer as it is often used to refer to WiFi.	(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (c)	 A description that includes: Allows user to perform tasks other than playing games (1) such as: browsing the internet / watching movies / listening to music / social networking (1) Allows user to perform many/other tasks such as: browsing the internet / watching movies / listening to music / social networking (2) 	Does many things/does lots of functions without an example		
	 Allows user to perform many/other tasks so that they don't need more than one device (2) They don't need more than one device (1) 			(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (d)(i)	 Any two benefits from: Can play anywhere in the room Easy to set up / add more remotes / fewer cables to connect/tangle Allows users to play new types of game Enhances the user experience/more immersive People more likely to play / easier to play/ intuitive interface Users may get more exercise Health and safety issue e.g. RSI/tripping hazard More interactive 	'No wires' without justification	Accept 'realistic' interface.	(2)

Answer	Do not accept	Additional Guidance	Mark
 Any one limitation from: Need to be charged / may run out of charge / need to change/use batteries when playing Less environmentally friendly if batteries are used Need to have adequate space Health / safety issues (e.g. controller may injure other player) More expensive Distance from console / range is limited / Interference People with restricted motion/disabilities 			(1)
	Any one limitation from: Need to be charged / may run out of charge / need to change/use batteries when playing Less environmentally friendly if batteries are used Need to have adequate space Health / safety issues (e.g. controller may injure other player) More expensive Distance from console / range is limited / Interference	Any one limitation from: Need to be charged / may run out of charge / need to change/use batteries when playing Less environmentally friendly if batteries are used Need to have adequate space Health / safety issues (e.g. controller may injure other player) More expensive Distance from console / range is limited / Interference People with restricted motion/disabilities	Any one limitation from: Need to be charged / may run out of charge / need to change/use batteries when playing Less environmentally friendly if batteries are used Need to have adequate space Health / safety issues (e.g. controller may injure other player) More expensive Distance from console / range is limited / Interference People with restricted motion/disabilities

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (d) (iii)	 Explanation involving any two from: Individuals may have restricted, slow movement / difficulty holding things (1): then will make it difficult to communicate with console (1) spoiling / at a disadvantage / making it difficult to play the game (1) 		Specific examples of physical disability are not required	(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (a)(i)	Monitor B			(1)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
2 (a)(ii)	 Any one benefit from: Can be fully automated Don't need local backup (CD / DVD / hard drive) Can access backups from anywhere/anytime Backups stored in a remote location / 		Accept "can't lose files" / "can restore files" (responses relating to general backup).	
	'Cloud' • Unlimited storage			(1)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
2 (a)(iii)	An explanation that involves any two from: If data is not (properly) deleted / destroyed / overwritten (1) the data could be recovered (1) other people could access her personal data / files (1) could misuse her data (e.g. identity theft) (1)	Answers referring to backup or simply losing data.		(2)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
2 (a)(iv)	Any one from:			(1)
	 Give it to charity / company / another 			
	person			
	Recycle it			
	 Trade it in / sell it 			

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
2 (b)(i)	 Any two actions from: Password / Biometric lock Anti-malware / Anti-spyware / Pop-up blocker / Ad-blocker Firewall Use automatic updates / ensure updates are made Only use a standard account instead of administrator Encryption Web filtering / block risky sites Set browser security (e.g. block cookies) 	Anti-virus Spyware Malware		(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (b)(ii)	 Any one benefit from: Can be accessed 24/7 / anywhere Don't have to go out Quickly/ easily move money / make payments Better deals online 	'Convenient' without expansion Quick / easy / fast without expansion		(1)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
2 (b)(iii)	 Attempt to gain your personal details (e.g. bank details) 			(1)

Question	Answer	Do not accept	Additional	Mark
Number		-	Guidance	
2 (c)(i)	В			(1)
				(1)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
2 (c)(ii)	 It prevents a website logging key presses Only some of the PIN is requested / numbers requested from the PIN change The asterisks prevent the PIN number 	To improve security of password entry		
	being viewed			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (d)(i)	 Advantages – any one from: May be able to get a free trial / try before you buy Don't have to wait for delivery / leave the house Will load faster than from DVD / don't need to put the DVD in to play the game / won't lose disc (May be) cheaper Less clutter from packaging / more environmentally friendly Receive the latest version / automatic updates 			
	 Disadvantages – any one from: Need (more) space on Hard Drive /console DRM – may only be able to play the game on one console / not sell on / would have to take console to friends to play May take a long time to download / Internet connection may not be suitable Lack of physical product 			(2)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
2 (d)(ii)	To ensure that it is Rini using the card / to stop			
	others using her card			(1)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
3 (a)(i)	Any one from:		Accept 'know where to	
	 To locate the nearest restaurant branch To find out if there is a restaurant in her area To calculate delivery time/cost 		deliver'	(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
			Guidance	
3 (a)(ii)	Any one from:			
	WiFi / wireless			
	• 2G / GSM			
	• 3G			
	Edge / GPRS			
	HSPA / HSDPA			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (a)(iii)	Any one from:			
	 Loads quicker / Faster download service (for customers) Format more appropriate for smaller screens / easier to use/view/navigate site Some normal web content will not work on mobile devices Access wider customer base / customers 			
	can access website when 'out and about'			(1)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
3 (a)(iv)	A description that involves:		Accept image for QR code	
	She uses an application (1) which		Must be a response about	
	reads/scans/processes (1) the data from the QR		using the smartphone	
	code / (bar)code (1) using the camera (1) to			
	access the web page (1)			(3)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
3 (a)(v)	 Any one from: PayPal / 3rd party payment processor (Debit/Credit/Bank) card 	Cash Cheque Bank account	Bank transfer for small payments is now increasingly common.	
	E-voucherBank/online transfer			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (a)(vi)	 Any two advantages from: Don't have to go out / wait in line May get discounts/deals when ordering online Can track order Site may remember previous orders / Faster ordering process e.g. don't have to explain order on phone May get rewards from third party sites Less chance of order being wrong / confused order / customer checks order Can see ratings from previous customers Ability to compare prices 	More choice		(2)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
3	GPS / Global Positioning System / Global	Sat Nav		
(a) (vii)	Positioning			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (a) (viii)	 Less chance of getting lost / easier to find destination / shorter travel time Highlights points of interest e.g. petrol station Less chance of being distracted e.g. looking at maps Audio / verbal instructions / tells you where to go Reduces number of miles driven / saves petrol Reduces chance of accident in unknown areas Can be used as hands free for mobile phone Can get traffic updates / recalculates routes Gives journey time / distance / route Shows current location / position / where you are Drawbacks (any one from) Might be a distraction whilst driving Can become too reliant / Does not always offer best route Increased chance of car theft if on view Might not use up-to-date maps Signal can be lost / interference 	A drawback where the reverse has already been given as a benefit		(2)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
3 (b)(i)	Cookie			
				(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (b)(ii)	 Pizza Town can easily track buying habits of customers (1) to offer rewards/discounts to loyal customers (1) which will make the customer more likely to return (1) OR Pizza Town can use /(sell) the data collected to personalise (1) the ordering experience for customers making recommendations based on previous orders (1) meaning customers may be more likely to buy (1) use data to target marketing (1) OR 		The explanation requires linked responses for maximum marks. Some marking points are interchangeable across paragraphs e.g. 'can store details such as address' [para3] (1) 'to offer rewards' [para1] (1) 'meaning customers more likely to buy' [para2] (1) Individual responses gain maximum two marks	(3)
	Pizza Town can store details such as payment method / address (1) to speed up ordering process for customers (1) which will make the customer more likely to come back / order again (1)			

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
4 (a)	• HDMI			
	 WiFi / wireless 			
	 USB / Firewire / Thunderbolt 			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
4 (b) (i)	 Explanation must include: As user generated reference sites (Wikipedia) can be generated / edited by anyone (1) And: the site can be vandalised (1) which might be difficult to spot (1) some people may give opinions rather than facts /biased views about a topic (1) to try and control the topic (1) Information /articles may not be accurate (1) as the user has not sourced/researched/checked their information (1) Users may not like each other (1) and cause 'edit wars' meaning content cannot be relied upon (1) 	Not reliable	An explanation requires linked responses for maximum marks. Individual statement scores 1 mark max. Must include 'usergenerated'/'edited by anyone' point for more than 1 mark to be awarded.	(3)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
4 (b)(ii)	A			
				(1)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
4 (b) (iii)	Any one from:			
	 Headset 			
	 Microphone 			
	 VoIP phone / Skype phone 			
	Webcam			(1)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
4 (c)(i)	A description including:		Accept 'broadcast' to mean	
	The ability to access/view/listen to content 'live'		'content'.	
	/instantly/in real time/on demand (1) whilst it is			
	being sent to/downloaded to the computer (1)			(2)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
4 (c)(ii)	 Any two benefits from: Don't have to wait for entire movie to download before watching / can watch instantly Does not use (as much) local storage Often free / cheaper than pay TV 	'Free' on its own.		
	 Wider variety/selection of media/movies Easy to search 			(2)

Question Number		Answer	Do not accept	Additional Guidance	Mark
4 (c)(iii)	Reason May have more than one device /program using the internet (1)	Solution other devices /programs need to be switched off / closed / removed from network (1)		The solution must be linked to the given reason to gain the mark. Some of these are interchangeable.	
	May not have enough bandwidth / poor connection(1)	would need to get a better internet connection / change ISP (1)			
	Poor wireless signal strength / interference (1)	Move closer to router / use a wired connection (1)			
	May not have enough bandwidth for quality of video/ poor connection (1)	change video quality (1)			
	Too many users on the same internet connection (1)	so would need to get a better internet connection / change ISP (1)			
	Too many users using the same stream / server (1)	Switch to another stream (1)			
	Computer performance / Lack of RAM / Software performance (1)	Change settings of computer / add more RAM / change software settings (1)			(2)

Question Number	Indicative content	Mark
4 (d)	Indicative content discussing the dangers of unmonitored internet access	(6)
	 Access to adult / inappropriate content Access to gambling sites Internet addiction Health effects of excessive use of internet / computer Spending time playing games / chatting / surfing the net instead of school work / socialising May develop inappropriate relationships with older people / predators Downloading illegal content such as movies / games Downloading and installing software such as viruses / Trojans / toolbars etc. Threat of cyber-bullying / harassment Giving away private details such as address etc. 	

Level	Mark		Descriptor
	0		No rewardable content
		Content	Students will produce brief and generalised responses about the problems of unmonitored access
Level 1	1-2	Discussion	Students' responses may give some brief discussion of the problems.
		QWC	They have used everyday language but their response lacks clarity and organisation. Spelling, punctuation and the rules of grammar are used with limited accuracy.
		Content	Student's responses will be mostly accurate and will include relevant problems associated with unmonitored access to the internet
Level 2	3-4	Discussion	Students will have discussed some of the identified problems of unmonitored access, with some accurate justifications .
		QWC	They have used some specialist terms and their response shows some focus and organisation. Spelling, punctuation and the rules of grammar are used with some accuracy.
Level		Content	The Student will produce a factually accurate response that identifies and discusses a range of problems of unmonitored access.
3	5-6	Discussion	The discussion will include valid justifications for most or all of their identified problems.
		QWC	They have used appropriate specialist terms consistently and the response shows good focus and organisation. Spelling, punctuation and the rules of grammar are used with considerable accuracy.

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (a) (i)	 Any two benefits from: Allows interaction with those elsewhere / develops friendships / new friends / improves interpersonal/communication skills Greater satisfaction/challenge against human players / can find suitable level of challenge Can work as a group to solve problems Develop leadership skills in team 		Guidance	(2)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
5 (a)(ii)	An explanation to include three from: The available bandwidth impacts upon the volume of data downloaded (1) and the latency determines the speed of the data (1). If either the bandwidth is too low (1) or latency is too high (1) the game will lag/run slow / picture will be poor etc (1).			(3)

Question Number	Ans	swer	Do not accept	Additional Guidance	Mark
5 (a)(iii)	_		Answers that do not relate to gaming	Accept 'vision problems'.	
	Effect	Action		The action must be linked to	
	Eye strain / Headaches	Take regular breaks / adjust lighting/ adjust screen brightness/position		the given effect to gain the mark. Some of these are interchangeable.	
	Muscle strain / stiffness	Take regular breaks / check seating position / use a chair / move to a different seat / move monitor			
	RSI	Take regular breaks / use ergonomic equipment / change controller			
	Poor/reduce fitness	Take more exercise / play more active games			
					(2)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
5 (b)(i)	A way for internet users to store bookmarks online		For 'online' accept 'website'	
	(1) which can then be shared with other users (1)			(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (b)(ii)	 Any two from: Find / add friends Communicate with other users / instant message service / comment on others posts Organise events / calendar Upload/share resources such as images / videos etc. Share personal information e.g. location, age, gender etc./ geotagging Share interests Play games / view movies / listen to music Advertising 			(2)

Question	Answer	Do not accept	Additional	Mark
Number			Guidance	
5 (b)(iii)	Any one from:		Reason must be identified.	
	Identity theft		Student must not simply	
	 Loss of privacy 		restate the question.	
	 May leave him vulnerable to cyber-bullying / 			
	predatory internet users			(1)

Question Number	Indicative content	Mark
*5 (c)	Indicative content discussing the impact on society of the widespread use of social networks.	
	Reasons:	
	 Business use for marketing purposes – personalised advertising etc. Can easily organise events with large following / awareness - users can now communicate on a global scale Used to easily connect people with similar interests / skills (e.g. for protest/jobs/shared goals/terrorism) People gain ideas/opinions about products / services from others – e.g. Product recommendation Use of feeds and updates - users can now more easily follow interests e.g. pop star, brands – reduces need for advertising Used by media – gives instant and up to date access to events / news / news finds the user Used to organise protest / revolution / social change – can quickly gain large awareness of issues Use in re-engaging communities / community groups – e.g. governments using social networking tools to engage with younger audiences Used by criminals – private information being freely given out by users Used by educational organisations to connect students and enable discussion Work/life balance – brings personal life into work People becoming involved in more virtual than real-life worlds – lack of true engagement e.g. 'liking' a campaign does not actual involve any effort. Lack of 'true' socialising 	
	200.00 11.00 000129	(6)

Level	Mark		Descriptor
	0		No rewardable content
Level 1	1-2	Content	The student will give a limited number of impacts of the use of social networks.
		Discussion	There will be little or no discussion of these impacts.
		QWC	They have used everyday language but their response lacks clarity and organisation. Spelling, punctuation and the rules of grammar are used with limited accuracy.
Level 2	3-4	Content	The student will give a limited number of impacts of the use of social networks.
2		Discussion	There will be some valid discussion of these impacts, although some of these may be limited and poorly justified .
		QWC	They have used some specialist terms and their response shows some focus and organisation. Spelling, punctuation and the rules of grammar are used with some accuracy.
Level 3	5-6	Content	The student will give a number of impacts of the use of social networks. The discussion will consider both positive and negative impacts.
		Discussion	The discussion will include valid discussion of most of their identified impacts.
		QWC	They have used appropriate specialist terms consistently and the response shows good focus and organisation. Spelling, punctuation and the rules of grammar are used with considerable accuracy.

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