

Mark Scheme (Results) January 2011

GCSE

GCSE ICT Unit 1: Living in a Digital World (5IT01/01)

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Question 1

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

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

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (b) (i)	<p>Any one reason form:</p> <ul style="list-style-type: none"> • Camcorder A is waterproof • Camcorder A is shockproof 			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (b) (ii)	<p>Any one reason from:</p> <ul style="list-style-type: none"> To preview / review the footage To see what is being recorded To view/use the menu So that the Viewfinder does not have to be used 	<ul style="list-style-type: none"> To give better picture quality / resolution 	Accept 'view photos'	(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (b) (iii)	<p>Any one from:</p> <ul style="list-style-type: none"> Memory card SD card 	<ul style="list-style-type: none"> 'bag' 		(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (b) (iv)	<p>Any one from:</p> <ul style="list-style-type: none"> A way of connecting a device to a network without the need for cables / wires A way of connecting to internet without wires / cables (accept "wireless internet connection") Wireless fidelity 			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (b) (v)	One feature from: <ul style="list-style-type: none"> • Optical zoom • Digital zoom • Zoom 			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (b) (vi)	Any one from: <ul style="list-style-type: none"> • To show where the recording was taken • Adds coordinates to the images 			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (b) (vii)	Any one from: <ul style="list-style-type: none"> • For reference - so that you can see where they were taken / to pinpoint where they were taken • Allow you to attach images to a map 	<ul style="list-style-type: none"> • 'location' 		(1)

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

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (c) (ii)	DVD has a greater storage capacity			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (c) (iii)	<p>One storage device from:</p> <ul style="list-style-type: none"> • Blu-ray drive • Memory stick / card/ USB drive • External hard drive • Personal media player (accept iPod / mobile phone) 	<ul style="list-style-type: none"> • Floppy disk 		(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (c) (iv)	<p>Two advantages from:</p> <ul style="list-style-type: none"> • Don't need to buy extra storage (e.g. more DVDs) / online storage is free • Can access video files from anywhere with internet • Data is kept securely / cannot be lost or broken • Data is regularly backed up • Can be easily shared with others • Cannot run out / unlimited storage • Saves time when accessing backups • No need for specialist software 			(2)

Question 2

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

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (a) (ii)	<p>Any one drawback from:</p> <ul style="list-style-type: none"> • Cannot verify that music is not a virus/malware etc. • May not be the file/track you wanted • May get sued by recording company / may be unlawful to download • Music may be low quality • Site owner may not abide by data protection laws/personal details may be given away • May need specialist software 	<ul style="list-style-type: none"> • 'illegal' without further explanation 		(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (a) (iii)	<p>Any one way from:</p> <ul style="list-style-type: none"> • Get anti-virus / anti-spyware / anti-malware software • Get a firewall/turn on firewall • Run a virus scan • Use safe sites such as iTunes 		Accept proprietary names for software.	(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (b) (i)	Answer C			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (b) (ii)	<p>One way from:</p> <ul style="list-style-type: none"> • https:// is displayed in the address bar • Security status bars are used/green bar is shown on secure websites • A message is displayed by your browser 	<ul style="list-style-type: none"> • 'Padlock' because it is in the question 		(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (c)(i)	<p>Any two reasons from:</p> <ul style="list-style-type: none"> • To get people's opinions of her music • To share her music with other people / to get herself known • To get ideas from other people • To get to know other people with similar interests • To work collaboratively with others 			(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (c) (ii)	<p>Any two features from:</p> <ul style="list-style-type: none"> • Uses a mix of upper and lower case • Uses mixture of different characters (numbers, special characters) • Not easily guessed (eg. Not name, date of birth) 			(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (c) (iii)	<p>Any two from:</p> <ul style="list-style-type: none"> • Don't write it down • Change it regularly • Don't tell anyone your password • Don't allow anyone to watch you type it in • Avoid allowing browsers (on shared/public PCs) to remember the password • Use different passwords for different sites • Encrypt passwords 			(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (d) (i)	Answer D			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (d) (ii)	<p>An explanation based on any two points:</p> <ul style="list-style-type: none"> • Tell users what information may be gathered (1) • How the information may be used (1) • State how the information is stored / secured (1) • Compliance with Data Protection Act / data protection legislation(1) 		<p>Students may give examples related to the forum site to illustrate their answers</p>	(2)

Question 3

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (a) (i)	Answer D			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (a) (ii)	No cap on how much can be downloaded / can download as much as you want			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (a) (iii)	<p>One Benefit from:</p> <ul style="list-style-type: none"> • Can access anywhere there is a signal / can work anywhere • No cables • No additional power needed <p>One Limitation from:</p> <ul style="list-style-type: none"> • Signal may not be good everywhere / some places may have no signal • Limit to download / upload amount • Not as fast as fixed line broadband • Dongle could be lost / damaged • Can be very expensive if used abroad • May be expensive (when compared to fixed line broadband) 	Reference to use of internet on mobile phones		(2)

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

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (b) (ii)	<p>Any two reasons from:</p> <ul style="list-style-type: none"> • Easier to set up than wired network (eg add clients) • Can share files/hardware/software resources as cables not needed • No cables so less health & safety issues/house is tidier • Can access network/internet from anywhere within range (house and garden) • Visitors can access the network • Network could be accessed by other devices (e.g. smartphones) 	<ul style="list-style-type: none"> • No cables (without expansion) • Answers that do not relate to the home network 		(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (b) (iii)	<p>Explanation to include any three from:</p> <ul style="list-style-type: none"> • Some of the wireless networks are secured, some non-secured • You can't access the secured networks unless you have the key (accept password) • If you use a non-secured network, your data is at risk • The routers from these networks are visible / broadcasting their SSID • There may be other wireless networks in range which are hidden • Signal strength of the networks is displayed as bars • Signal strength will affect the performance of the connection • Type of encryption / security used (e.g. WPA, WPA2) 	<ul style="list-style-type: none"> • Network name 		(3)

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (c) (i)	<p>Two advantages from:</p> <ul style="list-style-type: none"> • Open source is free to obtain and use • Users can access the source code/modify the source code • Community of support from other users 	<ul style="list-style-type: none"> • Online applications • No licence needed 		(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (c) (ii)	<p>One disadvantage from:</p> <ul style="list-style-type: none"> • May not be as feature rich / bought applications often have extra tools that open source may not have e.g. formatting preview etc. • Updates may take longer to come through • May not be as much professional / expert support available • May need to learn different skills • Open source software is not used as commercially as proprietary software/may affect employability • Work may not be compatible with other software 			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (c) (iii)	<p>Any three explanation point from:</p> <ul style="list-style-type: none"> • Can now order shopping online that will save them time - eg groceries • Can now access school / work from home which means they can work when they want / more convenient • Access to internet may mean they do better at school / work as more resources / information available • Access to media such as films, TV, music instantly • Get access to goods/services online that would otherwise be hard to access / time consuming/more expensive - e.g. applications for driving licence • Can now socialise online e.g. facebook, twitter etc. 			(3)

Question 4

Question Number	Answer	Do not accept	Additional Guidance	Mark
4 (a) (i)	<p>Any two reasons from:</p> <ul style="list-style-type: none"> • Can receive orders 24/7 • Reduces running costs / overheads • Increases brand status/company image • Can reach a wider target audience • Can see customer reviews • Offer wider range of stock (may not need to store/keep in warehouse) 			(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
4 (a) (ii)	<p>Description:</p> <ul style="list-style-type: none"> • Users can search / filter (1) to refine results (1) • They can see if they are currently the highest bidder / winning (1) Users receive messages if they are winning / being outbid / have won the auction (1) • Users can rate each other / the transaction (1) to support the bidding community (1) • Sellers/buyers can pay for items (1) using secure electronic transfers (1) • Users can bypass the auction (1) and buy instantly (1) • Auctions are timed (1) can prioritise bids (1) / Users can watch items and receive messages (1) when the auction will end (1) 		<p>Looking for specific features of auction sites</p> <p>One mark for initial point, one mark for additional linked point.</p>	(4)

Question Number	Answer	Do not accept	Additional Guidance	Mark
4 (b) (i)	<p>Any one from:</p> <ul style="list-style-type: none"> • Paypal/other guaranteed payment system • ESCROW services / 3rd party payment • Bank transfer • Online account with the company • E-vouchers • Gift vouchers 	<ul style="list-style-type: none"> • CoD (cash on delivery) 		(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
4 (b) (ii)	<p>Any one linked explanation from:</p> <ul style="list-style-type: none"> • She can cancel the transaction and get a full refund (1) plus any of: <ul style="list-style-type: none"> ○ Any time up to 7 working days after receiving the items (because it is an online transaction) (1) ○ You may not have the same rights when buying from a non-UK company as you do when buying in the UK (1) • She is entitled to a refund (1) plus any of: <ul style="list-style-type: none"> ○ because the item is damaged/not fit for purpose/does not match sales description (1) ○ rights are the same as on the high street (1) ○ You may not have the same rights when buying from a non-UK company as you do when buying in the UK (1) 		<p>An explanation requires linked responses for maximum marks.</p> <p>Individual statement scores 1 mark max.</p>	(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
4 (b) (iii)	<p>Any one way from:</p> <ul style="list-style-type: none"> • Use a review site / add review/complaint/rating on the company's website • Add comments to a forum • Blog/microblog • Email • Social networking site 			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
4 (c) (i)	<p>Any one linked explanation from:</p> <ul style="list-style-type: none">Personalised recommendations (1) are provided showing users potential purchases based on previous shopping / browsing history (1)Adverts are personalised (1) based on a person's browsing habits / web searches using cookies (1)	<ul style="list-style-type: none">Email	<p>An explanation requires linked responses for maximum marks.</p> <p>Individual statement scores 1 mark max.</p>	(2)

Question Number	Indicative Content	Mark
4 (c) (ii)	<p>Indicative content discussing benefits and drawbacks of online shopping to the customer:</p> <p>Benefits:</p> <ul style="list-style-type: none"> • Can shop 24/7 • Don't have to leave the house / no travel required / travel costs saved • No queues • Wider range of products • Easier to locate products / search can be filtered • Easier to make price comparisons • Check if product is in stock • Review of shops/products available • No pressure from sales staff • Product recommendations • Often cheaper than in store • Saves time <p>Drawbacks:</p> <ul style="list-style-type: none"> • Products received not as expected / difficult to see product • Unofficial sites / security threats / fraud • Must pay electronically / third party accounts • Need to submit personal information • Intrusive advertising (certain pop-ups) • Remember user IDs and passwords • Delivery problems 	(6)

Level	Mark	Descriptor
	0	No rewardable content
Level 1	1-2	The student will make some suggestions for benefits and drawbacks but these may not be fully explained. They may focus on either benefits or drawbacks. 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	The student will make a range of suggestions for benefits and drawbacks which includes some relevant discussion, although some of these may be limited and poorly justified. 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	The student will produce a response that includes a well-balanced discussion of a range of benefits and drawbacks, supported with appropriate justification. 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 5

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (a) (i)	<p>Any one from:</p> <ul style="list-style-type: none"> • HD TV • HDMI cable • HD cable 			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (a) (ii)	<p>Any two advantages from:</p> <ul style="list-style-type: none"> • Need to know how to set up pc / consoles are easier to set up • Ready made controllers • Can play anywhere / don't need a desk • Compact / all in one/ don't need extra peripherals for gaming • Designed specifically for gaming • Can play hands free/new gaming technology/games always on console first 			(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (a) (iii)	<p>Any two of:</p> <ul style="list-style-type: none"> • Access the internet • Playing CD, DVD, Blu-ray / watching videos / listening to music • Social networking • Stream/download video/music 			(2)

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (b)	<p>Explanation to include three of:</p> <ul style="list-style-type: none"> • Share and comment on others achievements (e.g. scores) • Ability to play co-operatively with others • Can join teams / clans and play with others regularly • Ability to chat with other users in-game • Can chat / play with users from all over the world 			(3)

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (c) (i)	<p>Any one from:</p> <ul style="list-style-type: none"> • It is illegal to make a copy of software / It is illegal to copy software and make money • Copyright, Designs and Patents Act 			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (c) (ii)	<p>Any one advantage from:</p> <ul style="list-style-type: none"> • It might be harder to copy (to a disk) an electronic download of a game • They can track where an illegal copy of a game might have come from • Wider audience for the product / more ways to buy • Saves money on CDs/cheaper to produce/distribution costs • Helps environmental targets / eco credentials of the company • Collection of marketing data 			(1)

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (c) (iii)	<p>Any one linked explanation from:</p> <ul style="list-style-type: none"> • Carbon footprint will be reduced (1) as less power / fewer resources used to create disk and packaging (1) • Lower emissions (1) from transport /distribution (1) • Less waste produced (1) meaning less landfill / recycling costs (1) 		<p>An explanation requires linked responses for maximum marks.</p> <p>Individual statement scores 1 mark max.</p>	(2)

Question Number	Indicative Content	Mark
5 (d)	<p>Negatives:</p> <ul style="list-style-type: none"> • People spending time on technology rather than with family/friends • Impact upon health due to inactivity • Time spent using technology rather than doing / completing work or school work • More likely to have accidents such as a car crash due to using technology in inappropriate situations • Dangers of giving out personal details leads to personal issues such as bullying • People becoming ill /over-stressed due to the inability to stop working due to always available communication • Increased amount of health issues - RSI etc. • Can risk not developing proper social skills • Lack of sleep due to over use of technology - affects work/school performance • Can lead to inability to focus / pay attention • Lack of sleep/food leads to illness • Addiction is similar to other addictions and needs to be treated <p>Positives:</p> <ul style="list-style-type: none"> • Use of technology is essential in modern world - need to develop skills to be successful • Technology develops hand-eye co-ordination which is essential in modern world • Technology use makes life easier • Technology use linked to improved reading skills • Friendships can be built online (social networking) / easier to maintain contact with friends and family (e.g. Skype) • Access to information about health and wellbeing online • Exercises at home using digital devices such as the Wii • Health and fitness monitoring • Use of technology to stay safe / track location 	(6)

Level	Mark	Descriptor
	0	No rewardable content
Level 1	1-2	The student will produce brief responses, making a limited number of simple statements, but without proper explanation or reasoning. 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	Student's responses will include a number of relevant arguments. They may focus on only negative or positive impacts. Students will have discussed the arguments that they have identified but will not always properly justify their reasoning. 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	The student will produce a response that includes the discussion of a range of arguments for and against. The arguments presented will be supported with appropriate justification. 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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