Q1.

	Answer	Do not accept	Additional Guidance	Mark
	Any two from:: • Affordability • Lack of knowledge / skills • Disabilities • Remoteness / Restricted infrastructure e.g. broadband/power/phone signal • Cultural factors (religion / gender inequality / age) • Political / government restrictions (lack of edemocracy)	Lack of equipment/ hardware/ software		**(2)**

Q2.

		Answer	Do not accept	Additional Guidance	Mark
(i)		**Any two pieces of equipment from:** • Microphone • Headphone/speakers • USB headset **2×1**	• Webcam • VoIP		**(2)**
(ii)		**Any one reason from:** • No broadband available in area • No mobile signal to allow use of mobile broadband • Friend's computer not set-up for VOiP **1×1**			**(1)**

		Indicative Content

QWC (i-iii)		Indicative content for a discussion on the impact on an individual of limited access to digital technology
		
		The impact on individual might include:
		
		  economic
		
		    _ more limited skills development and understanding of the use of technology
		
		    _ limited awareness / skills can impact on jobs
		
		    _ more difficult to access banking and other online services
		
		    _ goods cost more -often cheaper to buy goods / services on line
		
		    _ less choice - wider range of options re goods / services if can access easily on line

social

- _ digital exclusion

- _ poorer online communication (less immediate) access to email / other comms (also applies to mobile phones etc not just broadband)

- _ exclusion – opportunity to link into social networking / developing friendship / common interest groups

- _ access to 'now' society – immediate contact / access to news

educational

- _ poorer access to information / many educational resources now freely available on line

- _ on-line courses

- _ BBC byte size

- _ no access to online training – need to access community resources – need to leave home to do this

- _ more limited opportunity for development of skills – ICT and other functional skills

cultural

- _ access to resources such as:

  - ○ Music – MP3/4 players / downloads / streaming

  - ○ Video on demand

  - ○ TV BBC iPlayer and similar

Level	Mark	Descriptor
	0	No rewardable content
Level 1	**1-2**	The candidate will identify a number of examples of impact on individual. The discussion involves a limited number of simple statements. The statements may have limited reference to the impact. Little knowledge of the digital divide. 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 candidate's response will provide the description of a number of example s of impact. They will show some knowledge and understanding of the impact on the individual of the digital divide.

		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**	A well balanced discussion. Context is clear. Sound knowledge and understanding of the impact of the digital divide. A good range of examples are provided. 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.

Q3.

	Answer	Do not accept	Additional Guidance	Mark
(i)	Answer **C**			**(1)**
(ii)	DVD has a greater storage capacity			**(1)**
(iii)	**One storage device from:** • Blu-ray drive • Memory stick / card/ USB drive • External hard drive • Personal media player (accept iPod / mobile phone)	• Floppy disk		**(1)**
(iv)	**Two advantages from:** • 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)**

Q4.

	Answer	Do not accept	Additional Guidance	Mark
(i)	**B**			**(1)**
(ii)	Any two explanation points from: • Discs use different formats • Not compatible	• DVD player is lower quality • Will not fit • Copyright		

		Answer	Do not accept	Additional Guidance	Mark
		• Unable to be read • Blu-ray uses a different laser			(2)
(iii)		Modem / Ethernet cable / (Wireless) dongle / (Wireless) Router / Wireless adapter	• Blu-ray disc / Blu-ray player • 'Adapter' (on its own)		(1)
(iv)		**Explanation:** To stop the media from being shared / copied and sold illegally / prevent it being ripped. (1) This helps protect the rights/revenue of the copyright owner. (1)	• 'To stop it being copied' (without expansion) • 'To stop it being sold' (without expansion)	Allow 'copied and sold' only if together.	(2)

Q5.

		Answer	Do not accept	Additional Guidance	Mark
	B				(1)

Q6.

		Answer	Do not accept	Additional Guidance	Mark
(i)		• (Bluetooth is) faster • (Increased) range • No need for line of sight / Infrared blocked by objects in path • Compatibility / the other device only has Bluetooth • Bluetooth is more secure			**(1)**
(ii)		**Any two factors from:** • Interference (signal noise) • Distance between devices • Physical barriers (walls/water sources) • Limited bandwidth / sharing the connection / number of downloads at the same time • Increased signal latency • Version of Bluetooth	• Strength of connection • File size (question relates to speed of transfer, not time taken to transfer)		**(2)**
(iii)		**Explanation:** • Encryption randomises/encodes the data / data needs to be decoded / uses a key (1) So that unauthorised users cannot access the data / authorised users (with key) can read it (1).			**(2)**

Q7.

		Answer	Do not accept	Additional Guidance	Mark
(i)		Answer **D**			**(1)**
(ii)		No cap on how much can be downloaded / can download as much as you want			**(1)**

		Answer	Do not accept	Additional Guidance	Mark
	(iii)	**One Benefit from:** • Can access anywhere there is a signal / can work anywhere • No cables • No additional power needed **One Limitation from:** • 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)**

Q8.

		Answer	Do not accept	Additional Guidance	Mark
(i)		**One description from:** • pair/connect/link the devices (1) using WiFi (1) • Set up the phone as a router/hotspot (1) and use WiFi (1)			**(2)**
(ii)		**Any one from:** • Set an access key/password/PIN • block unknown devices (IP/MAC filtering) • Make sure device is not within range of other devices • Turn WiFi off • Hide SSID			**(1)**
(iii)		**Explanation:** As more devices (1) use the connection, the available			

bandwidth is reduced/less/divided (1)				**(2)**

Q9.

	Answer	Do not accept	Additional Guidance	Mark
(i)	**Any one reason form:** • Camcorder A is waterproof • Camcorder A is shockproof			**(1)**
(ii)	**Any one reason from:** • 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	• To give better picture quality / resolution	Accept' view photos'	**(1)**
(iii)	**Any one from:** • Memory card • SD card	• 'bag'		**(1)**
(iv)	**Any one from:** • 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)**
(v)	**One feature from:** • Optical zoom • Digital zoom • Zoom			**(1)**
(vi)	**Any one from:** • To show where the recording was taken • Adds coordinates to the images			**(1)**

(vii)	**Any one from:** • 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	• 'location'			**(1)**

Q10.

	Answer	**Do not accept**	**Additional Guidance**	**Mark**
(i)	Camcorder **C**			**(1)**
(ii)	Camcorder **D**			**(1)**