

Name: \_\_\_\_\_

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## **Answer All The following Questions**

**Date:**

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**Time:**

**Total marks available:**

**Total marks achieved:** \_\_\_\_\_

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**Questions**

**Q1.**

Tahira works as a teaching assistant at a school in a developing country  
The school has asked her to help students use digital devices in the classroom.



Tahira writes an acceptable use policy for the school network.

List **two** items that Tahira should include in the policy.

(2)

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**Q2.**

Alex and Karen have two young children. Henry is 6 years old and Jacob is 4 years old.

Games often display adverts that use transactional data.

State **one** benefit to **advertisers** of using transactional data.

(1)

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Q3.

Lee, Mitch and Stevie are school friends. They have a wide range of interests.

They are confident users of ICT. They use ICT in learning, leisure and socialising.



(i) Mitch wants to backup video files that he records.  
Why is backing up important?

(1)

- A So that files are easy to find
- B So that files can be edited
- C So that files can be restored
- D So that no one can take the files

(ii) Mitch could use DVD or CD to backup his video files.  
State **one** reason why DVD is more suitable.

(1)

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(iii) Identify **one local** storage device, other than a DVD or CD drive, that could be used for backups.

(1)

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(iv) Mitch could use online storage for his video files.  
Give **two** advantages of using online storage rather than DVD.

(2)

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**Q4.**

Alex and Karen have two young children. Henry is 6 years old and Jacob is 4 years old.

Henry uses apps on a tablet computer.



(Source: adapted from © Lisa Yarost, [http://www.flickr.com/photos/lisa\\_yarost/2159594350/sizes/m/in/photostream/](http://www.flickr.com/photos/lisa_yarost/2159594350/sizes/m/in/photostream/) (2008))

Explain why tablet computers may be easier to use than laptops for young children.

(2)

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**Q5.**

Alex and Karen have two young children. Henry is 6 years old and Jacob is 4 years old.

Henry buys an app by accident.

State **one** action Alex and Karen could take on their online app shop account to prevent this from happening.

(1)

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**Q6.**

Michael is a long-distance runner. He is preparing for a marathon.  
He uses a Bluetooth health monitor.

Michael uses Bluetooth to transfer data from the health monitor to his tablet computer.

(i) State why he might use Bluetooth rather than infrared for this transfer.

(1)

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(ii) Give **two** factors that might affect the speed of the transfer.

(2)

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(iii) Michael encrypts the data to send it securely to the team.

Explain how encryption helps keep data secure.

(2)

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**Q7.**

Alex wants to buy a home entertainment system.

Alex buys home entertainment system A.



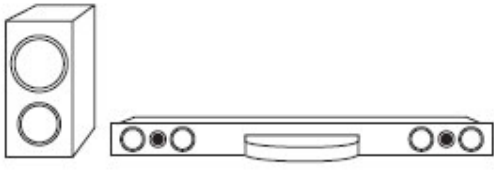
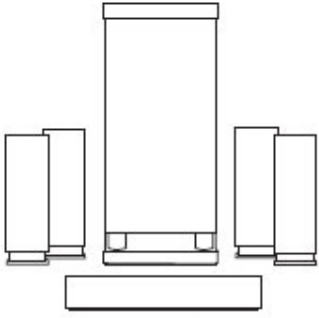
When he takes it home, he connects it to his wireless network and enters the network key.

What is a network key used for?

(1)

- A** To make sure the connection is always on
- B** To increase the connection speed
- C** To reduce the bandwidth
- D** To allow authorised access

Q8.

Home entertainment system A		Home entertainment system B	
			
<b>Radio</b>	Internet Radio	<b>Radio</b>	DAB
<b>Connectivity</b>	WiFi	<b>Connectivity</b>	Powerline Network
<b>MP3 quality</b>	320 kbit/s	<b>MP3 quality</b>	128 kbit/s
<b>Disc support</b>	DVD-RW	<b>Disc support</b>	Blu-ray
<b>Internal storage</b>	160 GB	<b>Internal storage</b>	None
<b>External storage</b>	SD Memory Card	<b>External storage</b>	USB
Home entertainment system C		Home entertainment system D	
			
<b>Radio</b>	FM	<b>Radio</b>	FM/AM
<b>Connectivity</b>	Ethernet	<b>Connectivity</b>	USB
<b>MP3 quality</b>	160 kbit/s	<b>MP3 quality</b>	256 kbit/s
<b>Disc support</b>	CD	<b>Disc support</b>	DVD
<b>Internal storage</b>	None	<b>Internal storage</b>	None
<b>External storage</b>	None	<b>External storage</b>	USB

Alex wants to buy a home entertainment system.

(i) Which **one** of these has wireless connectivity?

(1)

- Home entertainment system A
- Home entertainment system B
- Home entertainment system C
- Home entertainment system D

(ii) Which **one** of these provides the best MP3 quality?

(1)

- Home entertainment system A
- Home entertainment system B
- Home entertainment system C

Home entertainment system D  
(iii) Which **one** of these has the highest storage capacity?

(1)

- A** DVD-RW
- B** Blu-ray
- C** CD
- D** DVD



**Q9.**

Alex wants to buy a home entertainment system.

Alex listens to internet radio on his home entertainment system.

(i) Give **one** advantage to Alex of using internet radio, rather than FM/AM radio.

(1)

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(ii) Alex records the radio show. He wants to transfer the recording to his laptop.

Give **two** ways, other than WiFi, of transferring the recording.

(2)

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**Q10.**

Alex and Karen have two young children. Henry is 6 years old and Jacob is 4 years old.

Alex plays games on a console.

Explain why game graphics are often better on a games console than a tablet computer.

(2)

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Q11.

Tahira works as a teaching assistant at a school in a developing country  
The school has asked her to help students use digital devices in the classroom.



Explain why Tahira might use an interactive whiteboard in a lesson with younger students.

(3)

1

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2

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**Q13.**

Alex and Karen have two young children. Henry is 6 years old and Jacob is 4 years old.

Karen limits the time that Henry and Jacob spend using digital devices.

Explain why Karen does this.

(2)

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Q14.

Lee, Mitch and Stevie are school friends. They have a wide range of interests.

They are confident users of ICT. They use ICT in learning, leisure and socialising.



Mitch wants to buy a camcorder.

(i) Which of these camcorders has wireless connectivity?



(1)



- Camcorder A
- Camcorder B
- Camcorder C
- Camcorder D

(ii) Which of these camcorders records at the highest resolution?

(1)

- Camcorder A
- Camcorder B
- Camcorder C
- Camcorder D

Camcorder B	%%%	Camcorder A
	%%%	
SD	Video format	SD
		Video format

None	<b>Optical zoom</b>	None	<b>Optical zoom</b>
2x	<b>Digital zoom</b>	None	<b>Digital zoom</b>
2" colour	<b>LCD screen</b>	None	<b>LCD screen</b>
4 GB	<b>Internal memory</b>	None	<b>Internal memory</b>
None	<b>Removable storage</b>	SD card	<b>Removable storage</b>
2 hours	<b>Battery life</b>	2.5 hours	<b>Battery life</b>
None	<b>Extra features</b>	Waterproof, shockproof	<b>Extra features</b>
None	<b>WiFi</b>	None	<b>WiFi</b>
<b>Camcorder D</b>	%%%		<b>Camcorder C</b>
	%%%		
HD 1080p	<b>Video format</b>	HD 720p	<b>Video format</b>
12x	<b>Optical zoom</b>	15x	<b>Optical zoom</b>
30x	<b>Digital zoom</b>	18x	<b>Digital zoom</b>
3" colour	<b>LCD screen</b>	3.5" colour	<b>LCD screen</b>
240 GB	<b>Internal memory</b>	32 GB	<b>Internal memory</b>
SD card	<b>Removable storage</b>	SD card	<b>Removable storage</b>
3 hours	<b>Battery life</b>	5 hours	<b>Battery life</b>
GPS tagging	<b>Extra features</b>	None	<b>Extra features</b>
None	<b>WiFi</b>	Yes	<b>WiFi</b>





**Q16.**

Tahira works as a teaching assistant at a school in a developing country  
The school has asked her to help students use digital devices in the classroom.



A student accesses the system. She sees this challenge response test.



Explain why users might be asked to complete a challenge response test.

(3)

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