Q1.

Gia buys a pair of shoes from an online shop. Her details are stored in the shop's database.

(i) Give **two** reasons why the online shop stores her details.

(2)

1 ....

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2 ....

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(ii) The online shop must keep the customer database secure.

Explain **two** ways of preventing unauthorised access to the database.

(4)

1 ....

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2 ....

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Q2.

Laura and Shameela are friends. They use digital devices to listen to their favourite bands and to watch music videos.

Laura and Shameela are going to a Hi-Riderz concert at the City Arena.

The performance is shown on big screens in the arena.

Explain the problems that could be caused by signal latency.

(2)

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Q3.

   * Discuss the benefits and drawbacks of using the internet to socialise.

(6)

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Q4.

Laura and Shameela are friends. They use digital devices to listen to their favourite bands and to watch music videos.
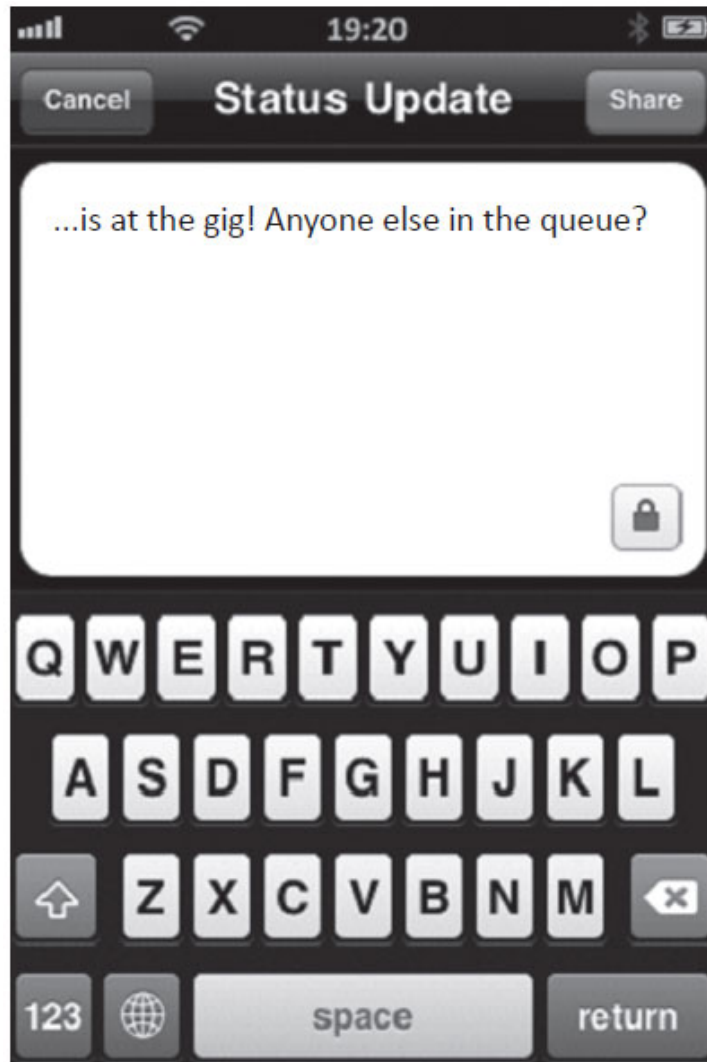

Laura and Shameela are going to a Hi-Riderz concert at the City Arena.

Laura and Shameela arrive at City Arena for the Hi-Riderz concert.

Shameela wants to let her friends know they have arrived.

She uses her smart phone to update her social network status.

(i) State what 'social networking' is.

(1)

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. . . .

(ii) Identify **two** advantages, to Laura, of using social networking technology rather than SMS to communicate with her friends.

(2)

1 . . . .

. . . .

2 . . . .

. . . .

(iii) State **one** way that Laura can control who can view her social network profile.

(1)

. . . .

Q5.

Jenny is in Year 12. She likes to use a social networking website to keep in touch with her friends.

This is Jenny's profile page.
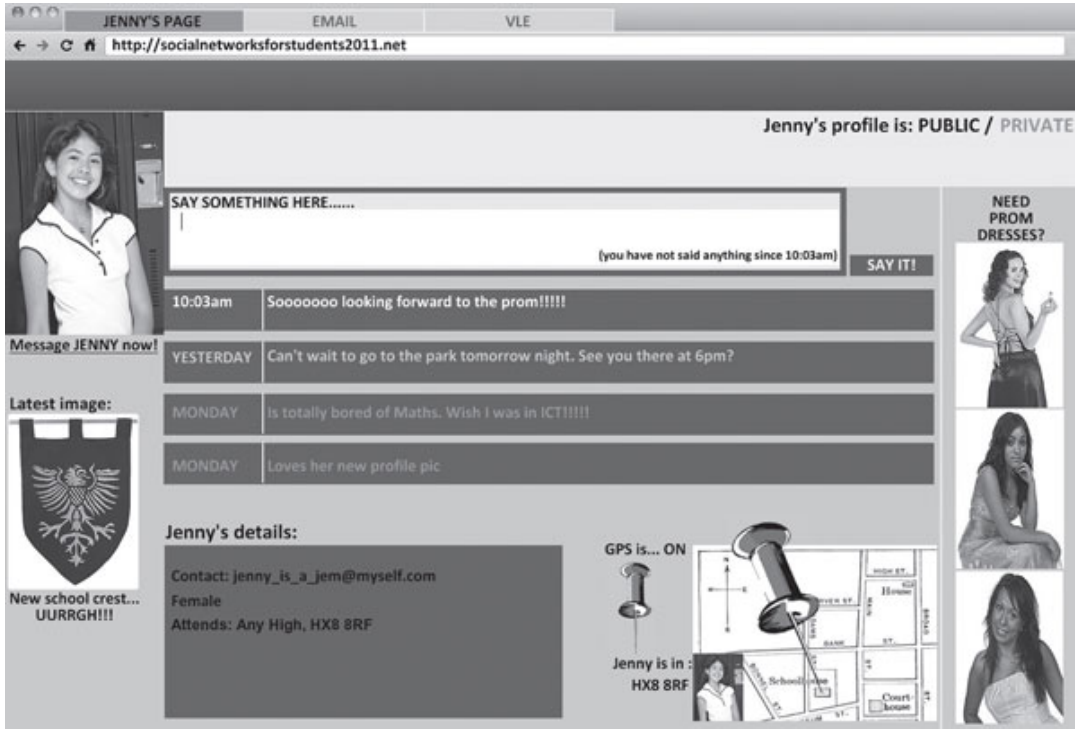
(i) List **three** changes that Jenny could make to her profile page to improve her security.

(3)

1 . . . .

. . . .

2 . . . .

. . . .

3 . . . .

. . . .

(ii) Jenny's smartphone automatically updates her profile with her current location whenever she logs on to the social networking   website.

Which **one** of these technologies does it use to do this?

(1)

☒ **A** GPS

☒ **B** Bluetooth

☒ **C** MMS

☒ **D** Infrared

(iii) Jenny notices an advert for prom dresses on her profile page.

Explain how the social networking website has selected this advert for her.

(2)

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Q6.

Laura and Shameela are friends. They use digital devices to listen to their favourite bands and to watch music videos.

Laura and Shameela are going to a Hi-Riderz concert at the City Arena.

(i) Hi-Riderz use social networking sites.

State **one other** type of online community that Hi-Riderz could use.

(1)

. . . .

. . . .

(ii) Describe how Hi-Riderz might use this other type of online community to communicate with their fans.

(3)

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. . . .

Q7.

Jenny is in Year 12. She likes to use a social networking website to keep in touch with her friends.

(i) State **two** ways that Jenny can use the social networking website to communicate with her friends.

(2)

1 . . . .

. . . .

2 . . . .

. . . .

(ii) Jenny is planning her birthday party.

Describe **two** features of the social networking website that she could use to help her plan the party.

(4)

1 . . . .

. . . .

. . . .

. . . .

2 . . . .

. . . .

. . . .

. . . .

Q8.

Michael and Ryan are athletes.
They use digital devices as they try to improve their performance and when they relax.
They are travelling to an overseas athletics event.

Tablet computer B has a sensor, which detects any movement of the device.

The device uses data from the sensor to switch itself off if it is dropped.

Give **two** other ways the device could use data from the sensor.

(2)

1 . . . .

. . . .

2 . . . .

. . . .

Tablet Computer A		Tablet Computer B	
Microphone	None	**Microphone**	None
Connectivity	USB 2.0, WiFi	**Connectivity**	USB 2.0, Bluetooth
Storage	16 GB	**Storage**	8 GB
Processor speed	1.2 GHz	**Processor speed**	600 MHz
Weight	680 g	**Weight**	600 g
Size	242×190×13 mm	**Size**	230×180×16 mm
SIM card slot	No	**SIM card slot**	No
Tablet Computer C		Tablet Computer D	

Microphone	None	Microphone	Internal
Connectivity	Bluetooth	Connectivity	WiFi
Storage	32 GB	Storage	8 GB
Processor speed	1 GHz	Processor speed	800 MHz
Weight	220 g	Weight	650 g
Size	150×80×10 mm	Size	170×220×14 mm
SIM card slot	Yes	SIM card slot	No

Q9.

Michael buys a tablet computer.

Michael's tablet computer has a SIM card slot.
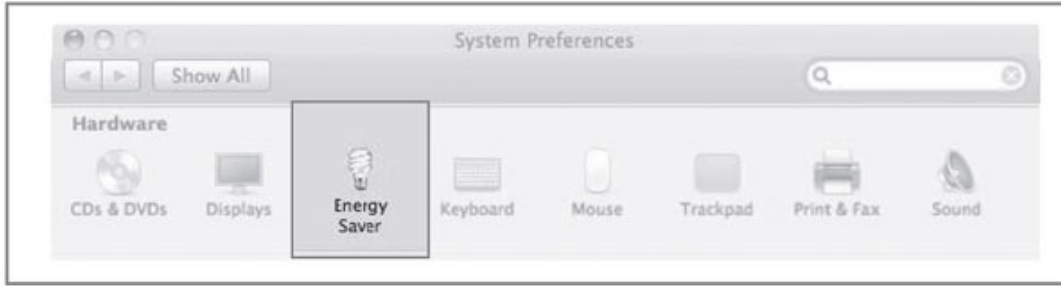
What type of connectivity could this provide?

(1)

☒ **A** Infrared

☒ **B** Bluetooth

☒ **C** 3G

☒ **D** WLAN

Q10.

Michael buys a tablet computer.

Michael can reduce the energy use of his tablet computer.

Identify **one** feature of the tablet computer that uses energy. State what could be changed to reduce its energy use.

(2)

Feature

. . . .

Change

. . . .

. . . .