

Q1.

The phones in **Figure 1** use different network bands.

The network band of a mobile phone limits:

(1)

A the speed at which data can be downloaded

☐

B the countries in which the phone can be used



☐

C the data services the phone supports

☐

D the choice of mobile network provider

☐

PHONE A		PHONE B	
			
Camera	8.1MP	Camera	5 MP
Storage	64 MB	Storage	8 GB
Memory card	SDHC – up to 4 GB	Memory card	NONE
Music	mp3 player, FM radio	Music	mp3 player
Video	NONE	Video	NONE
email	POP3	email	IMAP4
Connectivity	WiFi, Bluetooth, GPS	Connectivity	WiFi, Bluetooth
Network band	Quad	Network band	Tri
PHONE C		PHONE D	



Camera	3.2 MP	Camera	2 MP
Storage	110 MB	Storage	240 MB
Memory card	SD – up to 4 GB	Memory card	NONE
Music	mp3 player	Music	mp3 player
Video	NONE	Video	calling
email	POP3	email	POP3
Connectivity	WiFi, Bluetooth	Connectivity	Bluetooth
Network band	Dual	Network band	Quad

Figure 1

Q2.

Use the information in **Figure 1** to help you answer this question.

Phone **B** uses IMAP4 for email, the other phones use POP3.

Describe how IMAP4 differs from POP3.



(2)

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PHONE A		PHONE B	
			
Camera	8.1MP	Camera	5 MP
Storage	64 MB	Storage	8 GB
Memory card	SDHC – up to 4 GB	Memory card	NONE
Music	mp3 player, FM radio	Music	mp3 player
Video	NONE	Video	NONE
email	POP3	email	IMAP4
Connectivity	WiFi, Bluetooth, GPS	Connectivity	WiFi, Bluetooth
Network band	Quad	Network band	Tri



PHONE C		PHONE D	
			
Camera	3.2 MP	Camera	2 MP
Storage	110 MB	Storage	240 MB
Memory card	SD – up to 4 GB	Memory card	NONE
Music	mp3 player	Music	mp3 player
Video	NONE	Video	calling
email	POP3	email	POP3
Connectivity	WiFi, Bluetooth	Connectivity	Bluetooth
Network band	Dual	Network band	Quad

Figure 1

Q3.

Michael is a long-distance runner. He is preparing for a marathon.

A radio reporter interviews Michael after the marathon.

The interview is used for a podcast.

Michael uploads the podcast to his blog.

Michael moderates comments on his blog.

Explain why he does this.

(2)

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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.

After the event, songs will be distributed on the internet.

(i) Explain why the mp3 format is suitable.

(2)

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(ii) State **one** disadvantage to the listener of using the mp3 format.

(1)

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Q5.

- * Some companies sell music and video as downloads rather than physical products.

Discuss the effects this has on customers and musicians.

(6)

Q6.

Layla has a new netbook to help her with her homework.

Layla needs to use word processing software. She does not want to pay for it.

(i) She could use free online word processing software.

Give **two** advantages of using online applications on the netbook.

(2)

1

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2

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(ii) Give **one** disadvantage of using online applications on the netbook.

(1)

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(iii) Layla could use free open source software.

Explain the term 'open source software'.

(2)

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(iv) The availability of free applications software is a threat to commercial software producers, such as MicrosoftTM.

Explain **two** ways in which commercial software producers can respond to this threat.

(4)

1

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2.....

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Q7.

The Lee family

Jon and Manjit Lee have three children, Gia, Mark and Layla.

Digital devices play an important part in the daily lives of the Lee family. They keep in touch with friends and family using mobile phones and VoIP.

They use ICT in learning, leisure and socialising – sometimes connecting through the internet to resources and sometimes using standalone devices.

The family use a home network to access the internet.

They have a router that supports both cable and wireless connections.

(i) State **one** wireless technology that can be used to connect digital devices to the router.

(1)

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(ii) State **two** ways to prevent unauthorised access to the router.

(2)

1

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2

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Q8.

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



* Laura has many online accounts.
She uses them to shop and communicate with friends.
Discuss the privacy concerns associated with individuals' use of the internet.

(6)

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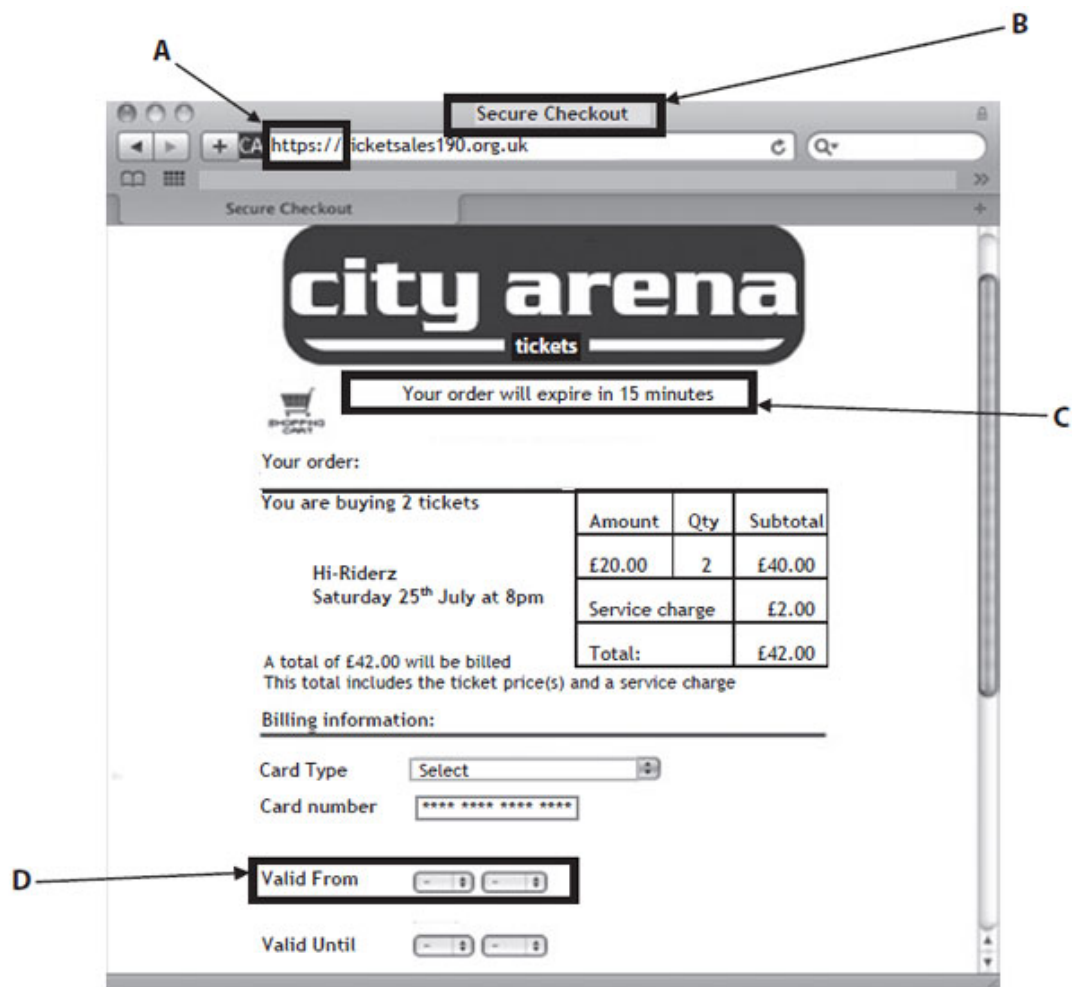
Q9.

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 buys e-tickets using this booking screen.



(i) Four areas of the booking screen have been labelled A, B, C and D.

Which **one** identifies that the site is safe to use?

(1)

- ☐ A
- ☐ B
- ☐ C
- ☐ D

(ii) Which **one** of these processes is used to improve security on the booking system?

(1)

- ☐ A Deleting
- ☐ B Encryption
- ☐ C Phishing
- ☐ D Reporting

(iii) The booking screen displays Laura's card number like this:

Card number *

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**** *
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**** *

Explain why the card number is displayed like this.

(2)

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(iv) State **two** benefits to Laura of buying tickets online.

(2)

1

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2

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Q10.

Ryan uses the airline 'Fast Flights' to travel to overseas athletics events.

Ryan decides to buy his flight tickets online. Before he pays, he signs up for an online account.

Give **two** advantages to Ryan of using an online account to buy flight tickets.

(2)

- 1
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- 2
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