

Q1.

Any High is a secondary school with over 1000 students age 11–19. It makes extensive use of ICT for teaching and learning, as well as administration.

The school wants to buy laptops for Year 7 students.

The students will sometimes use their laptops for video conferencing in lessons.

(i) Laptop B has a built-in webcam.

Give **one** reason why a built-in webcam may be more convenient than an external one.

(1)

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(ii) The students will use headsets when video conferencing.

State **one** advantage of using a headset.

(1)

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(iii) Sometimes after plugging in a headset the sound cannot be heard.

Give **one** reason for this.

(1)

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(iv) When using a headset is it important to ensure that the volume is set to an appropriate level.

Give **two** reasons for this.

(2)

1

2

Laptop A	Laptop B



Processor speed	1.6 GHz	Processor speed	2.1 GHz
RAM	1 GB	RAM	3 GB
Internal hard drive	160 GB	Internal hard drive	500 GB
Battery life	5 hours	Battery life	3 hours
Screen size	10.2 inch	Screen size	15.6 inch
Resolution	1024 × 600	Resolution	1366 × 768
Weight	1.3 kg	Weight	2.8 kg
Optical storage	None	Optical storage	8× DVD-ROM
Built-in webcam	No	Built-in webcam	Yes

Laptop C

Laptop D



Processor speed	2.13 GHz	Processor speed	2.53 GHz
RAM	4 GB	RAM	8 GB
Internal hard drive	500 GB	Internal hard drive	640 GB
Battery life	4 hours	Battery life	2 hours
Screen size	16.4 inch	Screen size	17 inch
Resolution	1600 × 900	Resolution	1900 × 1200
Weight	3.2 kg	Weight	5.5 kg
Optical storage	Blu-ray HD play back, 8× DVD-RW	Optical storage	8× DVD-ROM
Built-in webcam	Yes	Built-in webcam	Yes

Q2.

Any High is a secondary school with over 1000 students age 11–19. It makes extensive use of ICT for teaching and learning, as well as administration.

The school wants to buy laptops for Year 7 students.

Year 7 students will take their laptops with them to to all lessons.

Describe **one** feature of a laptop that makes it suitable for this purpose.

(2)

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Q3.

Any High is a secondary school with over 1000 students age 11–19. It makes extensive use of ICT for teaching and learning, as well as administration.



The school wants to buy laptops for Year 7 students.



The students will use the laptops in English lessons to watch films. They want to watch high quality films on optical disk.

Which **one** of these laptops would be **most** suitable?

(1)

- Laptop A
- Laptop B
- Laptop C
- Laptop D

Laptop A		Laptop B	
			
Processor speed	1.6 GHz	Processor speed	2.1 GHz

RAM	1 GB	RAM	3 GB
Internal hard drive	160 GB	Internal hard drive	500 GB
Battery life	5 hours	Battery life	3 hours
Screen size	10.2 inch	Screen size	15.6 inch
Resolution	1024 × 600	Resolution	1366 × 768
Weight	1.3 kg	Weight	2.8 kg
Optical storage	None	Optical storage	8× DVD-ROM
Built-in webcam	No	Built-in webcam	Yes
Laptop C		Laptop D	
			
Processor speed	2.13 GHz	Processor speed	2.53 GHz
RAM	4 GB	RAM	8 GB
Internal hard drive	500 GB	Internal hard drive	640 GB
Battery life	4 hours	Battery life	2 hours
Screen size	16.4 inch	Screen size	17 inch
Resolution	1600 × 900	Resolution	1900 × 1200
Weight	3.2 kg	Weight	5.5 kg
Optical storage	Blu-ray HD play back, 8× DVD-RW	Optical storage	8× DVD-ROM
Built-in webcam	Yes	Built-in webcam	Yes

Q4.

Any High is a secondary school with over 1000 students age 11–19. It makes extensive use of ICT for teaching and learning, as well as administration.

The school wants to buy laptops for Year 7 students.

(i) Which **one** of these laptops could be used for the longest time without recharging?



(1)

- Laptop A
- Laptop B
- Laptop C
- Laptop D

(ii) Which **one** of these laptops has the largest storage capacity?

(1)

- Laptop A
- Laptop B
- Laptop C
- Laptop D

Laptop A		Laptop B	
			
Processor speed	1.6 GHz	Processor speed	2.1 GHz
RAM	1 GB	RAM	3 GB
Internal hard drive	160 GB	Internal hard drive	500 GB
Battery life	5 hours	Battery life	3 hours
Screen size	10.2 inch	Screen size	15.6 inch
Resolution	1024 × 600	Resolution	1366 × 768
Weight	1.3 kg	Weight	2.8 kg
Optical storage	None	Optical storage	8× DVD-ROM
Built-in webcam	No	Built-in webcam	Yes
Laptop C		Laptop D	



Processor speed	2.13 GHz	Processor speed	2.53 GHz
RAM	4 GB	RAM	8 GB
Internal hard drive	500 GB	Internal hard drive	640 GB
Battery life	4 hours	Battery life	2 hours
Screen size	16.4 inch	Screen size	17 inch
Resolution	1600 × 900	Resolution	1900 × 1200
Weight	3.2 kg	Weight	5.5 kg
Optical storage	Blu-ray HD play back, 8× DVD-RW	Optical storage	8× DVD-ROM
Built-in webcam	Yes	Built-in webcam	Yes

Q5.

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.

Ryan and Michael arrive in the country where the athletics event is being held.

Ryan sees that he has a mobile phone signal from a local network.

(i) Which **one** of these allows him to use the local network?

(1)

- A** Dial-up
- B** Freeware
- C** Roaming
- D** Broadband

(ii) Ryan receives a welcome message from the network on his phone.

Which **one** of these would be used to send the message?

(1)

- A** SMS
- B** ADSL
- C** GPS
- D** WPA

Q6.

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

Jon wants to buy a new mobile phone.

(i) Which one of these phones has the largest storage?

(1)

Phone **A**

Phone **B**

Phone **C**

Phone **D**

(ii) The phone with the highest resolution camera is:

(1)

Phone **A**

Phone **B**

Phone **C**

Phone **D**

(iii) Jon wants to 'surf the web' on his phone.

State **one** feature the phone could have to make this possible.

(1)

.....

.....

(iv) Jon wants to use his phone in the car.

He needs to use a hands-free connection.

State **one** method of hands-free connection.

(1)

.....

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

Q7.

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

Phone **A** has GPS as one of its features.

State **two** uses of GPS on a mobile phone.



(2)

1

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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

Q8.

Jon wants to buy a new mobile phone.

Jon is concerned about data security.

State **two** ways he can protect the information stored on his phone.

(2)

- 1
- 2

Q9.

Some people find it difficult to use a mobile phone.

State **two** features that can make a phone easier to use.

(2)

1

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2

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Q10.

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



Phone **C** has a memory card for extra storage.

Give **one** other use for this memory card.

(1)

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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