

Home networks

Mr and Mrs Green have decided to set up a home network for themselves and their two teenage children, Josh and Ben.

F-E

(a) State **two** benefits to the family of setting up a home network. **(2 marks)**

Guided

- 1 Backing up data to another computer.
- 2
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This question is asking for the benefits of installing a home network not the advantages of one type over another.

F

(b) To set up the network they have bought this item of hardware.



State the name of this item of hardware. **(1 mark)**

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(c) Mr and Mrs Green have decided that the family will use wireless connections.

F-E

(i) State **two** advantages of a wireless network over a wired one. **(2 marks)**

- 1
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- 2
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D-C

(ii) Mr Green tries to access his Wi-Fi and notices that he has no signal.

Explain **one** cause of signal loss on Wi-Fi. **(2 marks)**

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Make sure you give an explanation: make a point, then explain it.

C-B

(d) Josh and Ben decide to stream a HD film and connect the PC via Ethernet.

Explain why they connect the Ethernet cable to view this film. **(2 marks)**

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Communication protocols 1

Katerina has a laptop and likes to communicate with her friends all over the world.

F

- (a) She often makes voice calls to her friends over the Internet.

Which protocol are the computers using to make these calls? (1 mark)

- A HTTP
- B VoIP
- C SMTP
- D HTTPS

G-F

- (b) List **two** peripherals that their computers might need to make these calls. (2 marks)

1

2

A

- (c) Name the communication protocol most commonly used for sending emails. (1 mark)

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- (d) The IMAP protocol allows users to read emails on the mail server. Katerina's mail program uses the IMAP protocol.

C-B

- (i) Give **one** benefit and **one** drawback to Katerina of using the IMAP protocol. (2 marks)

Benefit

IMAP allows Katerina to access her inbox

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Drawback

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B-A*

- (ii) Explain how the POP protocol handles emails differently from the IMAP protocol. (2 marks)

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The question tells you that the IMAP protocol allows users to read emails on the mail server. Think about how the POP protocol is different. If it does not store emails on the mail server, where does it send them?

Preventing misuse

G

- (a) When we visit websites they often download small text files to our computers to track what we do on the site.

State the name of these text files.

(1 mark)

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D-C

- (b) Reputable firms will have a privacy policy displayed on their website.

State **two** things that a privacy policy tells you.

(2 marks)

1 What information the company is collecting about you.

2

Students have struggled with exam questions similar to this –
be prepared!

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**EXAM
ALERT**

D-C

- (c) One method criminals use to find out our personal details is spyware.

Give **two** precautions users should take to prevent spyware being downloaded to their computers.

(2 marks)

1

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2

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- (d) Some criminals send bogus emails like the one shown below to trick computer users into telling them their personal and financial details.

F

- (i) What do we call this type of email?

(1 mark)

Dear Customer,
Due to recent system upgrades, we urgently need you to confirm your account details by clicking on the link below:
<http://www.azbookshop.co.uk/account/login>
We may also request in a separate email message scanned copies of one or more forms of photo ID. If you don't follow the link and confirm your details within the next 36 hours, we reserve the right to terminate your account. This will leave you unable to make online purchases with us.
Yours,
AZbooks team

- A virus
 B Trojan
 C phishing
 D spyware

E-D

- (ii) State **two** clues that might suggest that it is a bogus email.

(2 marks)

1

2

Copyright

D-B

(a) There are many file sharing websites where music is distributed illegally.

Explain the impact illegal file sharing has on the music industry.

(3 marks)

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G

(b) If you download music from an illegal site which act are you breaking?

(1 mark)

- A The Data Protection Act
- B The Computer Misuse Act
- C The Copyright, Designs and Patents Act
- D The Computer Downloading Act

E-D

(c) Although illegal sites may harm the music industry, many musicians benefit from selling their music online through legal sites.

List **two** benefits to musicians of selling their music online.

(2 marks)

Guided

1 Musicians do not need a record company to be able to produce and sell music.

2

(d) Jo searches the Internet for images to illustrate her school project. She finds some images that allow use for non-commercial purposes.

B-A

(i) Explain Jo's legal responsibilities for the use of these images. (2 marks)

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Think carefully about what this question is asking. Jo can use the images for her school project but what must she do if she uses them?

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EXAM ALERT

C-B

(ii) Jo finds some images that she wants to use in a book she intends to sell. Explain what Jo would have to do if she were to use these images. (2 marks)

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Internet advertising 1



EasyFly is a new airline company. They use Internet advertising.

F-D

- (a) Describe **one** benefit to *EasyFly* of advertising on the Internet rather than on television. (2 marks)

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D-A*

- (b) *EasyFly* decides to place advertisements on search engines. Explain how search engine advertisements can target people who might be interested in *EasyFly*. (3 marks)

Guided

Search engine advertisements work by displaying adverts when users type relevant key words into the search engine. *EasyFly* could carefully choose

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A-A*

- (c) *EasyFly* also advertises on social networks. Social networks allow people to share content quickly and easily. Explain **one other** reason why *EasyFly* would benefit from advertising on social networks. (3 marks)

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Applications software

Jack wants to buy some software for his new online business.

(a) He could use either locally installed software or hosted software.

B

(i) State what is meant by hosted software.

(1 mark)

Guided

Hosted software runs on a

E-D

(ii) State **two** benefits to Jack of using hosted software.

(2 marks)

Guided

1 It can be accessed from

2 It doesn't take up much on your computer's

C-B

(iii) State **two** drawbacks to Jack of using hosted software.

(2 marks)

1

2

E-C

(b) Jack reads a review of the software on the software company's own website.

He is worried the review may be biased.

Give **three other** sources of information he could use online.

(3 marks)

1

2

3

(c) Jack's friend recommends open source software.

D

(i) State what is meant by open source.

(1 mark)

EXAM ALERT

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Students have struggled with exam questions similar to this - be prepared! **Plus**

Be careful not to confuse **hosted software** with open source software.

F

(ii) State **one** benefit to Jack of using open source software.

(1 mark)

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D

(iii) State **one** drawback to Jack of using open source software.

(1 mark)

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