

Comp Sci – Internet Technologies - QUESTIONS

5 Give the meaning of the following terms.

HTML

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http

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https

.....

[3]

4 Choose **six** correct terms from the following list to complete the spaces in the paragraphs below:

- encryption
- file name
- firewall
- HTML tags/text
- IP address
- protocol
- proxy server
- SSL certificate
- web server name

A user enters a URL. The web browser breaks up the URL into **three** components:

1

2

3

The web server returns the selected web page.

The web browser reads the from the selected page and shows the correctly formatted page on the user's screen.

A is used between the user's computer and the network to examine the data traffic to make sure it meets certain criteria.

To speed up the access to the web pages next time, a is used between the computer and web server; this device uses a cache to store the website home page after it has been accessed for the first time.

[6]

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2 Hexadecimal codes are used in MAC addresses.

(a) State what is meant by the term MAC.

.....[1]

(b) Explain what the hexadecimal code in a MAC address represents.

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.....[3]

6 Secure socket layer (SSL) is used in the security of information on Internet websites.

(a) State how it is possible for a user to know that a website is secure by looking at the web address.

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.....[1]

(b) Describe **three** of the stages a web browser goes through to detect whether a website is secure.

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.....[3]

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11 Describe the use of structure and presentation in a HTML document.

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.....[4]

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7 Six security terms and six statements are listed below.

Draw a line to match the security term with the most appropriate statement.

Security term	Statement
Encryption	Provides a secure connection between web browsers and websites allowing secure transmission of private data.
Secure Socket Layer (SSL)	Computer that acts as an intermediary between a web browser and the Internet.
Pharming	Legitimate-looking email is sent in the hope of gathering personal information; it requires the user to click on a link in the email.
Phishing	Uses rules and criteria, set by the user, to help protect a network or system from unauthorised access.
Firewall	Malicious code installed on the hard drive of a user's computer; this code will redirect the user to a fake website without the user's knowledge.
Proxy server	Scrambles data for secure transmission.

[5]

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5 Raj is using the Internet to do some online shopping. He visits a website that tells him that it uses cookies.

(a) Explain what is meant by the term **cookies**.

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(b) Give **two** examples of the use of cookies.

Example 1
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Example 2
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.....[2]

3 (a) Three statements about cookies are shown below.

Study each statement.

Tick (✓) to show whether the statement is true or false.

Statement	True	False
Cookies can destroy or modify data in a computer without the user's knowledge		
Cookies generate website pop-ups		
Cookies allow a website to detect whether a viewer has viewed specific web pages		

[3]

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4 Six computer terms and six descriptions are shown below.

Draw a line to link each term to its appropriate description.

Term	Description
Browser	Signal sent to a processor which may cause a break in execution of the current routine, according to priorities
HTML	Company that provides individual's access to the Internet and other services such as web hosting and emails
Internet service provider	Software application used to locate, retrieve and display content on the World Wide Web e.g. web pages, videos and other files
Interrupt	Hardware identification number that uniquely identifies each device on a network; it is manufactured into every network card and cannot be altered
IP address	Authoring language used to create documents on the World Wide Web; uses tags and attributes
MAC address	Location of a given computer/device on a network; can be a static or dynamic value

[5]

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6 (a) Explain what is meant by HTML.

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..... [3]

(b) HTML uses both structure and presentation.

Describe what is meant by the two terms.

Structure

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Presentation

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..... [2]

(c) Explain the function of a web browser.

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..... [3]

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10 (a) Describe what is meant by HTML.

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.....[3]

(b) The following URL is typed in:

<http://www.cie.org.uk/ComputerSciencePapers>

This URL is composed of three parts.

State the part of this URL that is the:

File name

Protocol

Web server name

[3]