

5. The Internet and Its Uses

5.1 The internet and the world wide web

- 1 (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]

2 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

[3]

Structure

.....

.....

Presentation

.....

.....

[2]

[3]

Explain the purpose of the web browser.

[2]

Give **three** other functions of the web browser.

1

2

3

[3]

Explain the difference between session cookies and persistent cookies.

[4]

5 (a) Complete the statements about cookies.

Use the terms from the list.

Some of the terms in the list will **not** be used. Some terms may be used more than once.

- compressionexecutablehypertext markup language (HTML)
- hypertext transfer protocol (HTTP)imageinternet protocol (IP) address
- persistentsessionsoundtext
- uniform resource locator (URL)web browserweb server

Cookies are small files that are sent between a and a
..... cookies are stored in memory and **not** in the user's secondary storage.

When the web browser is closed a cookie is lost, whereas a cookie is **not** lost.

[6]

(b) Give **three** functions of a cookie.

- 1
- 2
- 3

[3]

6 The table contains terms and descriptions about the internet.

Complete the table with the missing terms and descriptions.

Term	Description
.....	the collective name for all the web pages available
.....	a small text file, stored by the web browser, that can store a user's personal data
uniform resource locator (URL)
web server
.....	the language used to create a website. Example tags are <head> and <body>
.....	a protocol that is used to request and send web pages

7 An employee uses a web browser on their computer.

(a) Describe the main purpose of a web browser.

.....

.....

.....

..... [2]

(b) The employee wants his payment details to be automatically filled in when he buys products using the internet.

Identify the function of a web browser that could be used for this purpose.

..... [1]

(c) The employee wants to be able to quickly access websites that he regularly uses.

Identify the function of a web browser that could be used for this purpose.

..... [1]

(d) The web browser uses the secure socket layer (SSL) protocol to transmit personal data securely over the internet.

State how the SSL protocol secures the data for transmission.

.....

..... [1]

8 A company has a website. Users use the internet and the world wide web to access the website.

(a) Describe the difference between the internet and the world wide web.

.....

.....

.....

..... [2]

(b) The website has a uniform resource locator (URL). The URL has three different parts.

Identify the **three** different parts that are included in the URL.

1

2

3 [3]

(c) One function of a web browser is to provide an address bar for a user to enter a URL.

Give **three** other functions of a web browser.

1

2

3 [3]

9 A student enters the uniform resource locator (URL) for a web page into their tablet computer.

(a) State what is meant by a URL.

.....
..... [1]

(b) Identify **two** different parts of a URL.

1
2
[2]

(c) The student enters the URL into a piece of software that then displays the web page.

Identify the name of this software.

..... [1]

(d) Draw and annotate a diagram to show how the web page is located and retrieved to be displayed on the student's tablet computer.

- (e) The data for the web page is transmitted using the secure socket layer (SSL) protocol.

Complete the paragraph about the SSL protocol.

Use only terms from the list.

Not all terms need to be used. Some terms may be used more than once.

encrypted

file server

hypertext markup language (HTML)

hypertext transfer protocol (HTTP)

operating system

search engine

unencrypted

URL

web browser

web server

The asks the
to identify itself. The sends back its digital
certificate. The authenticates the digital certificate.
If it is authentic, data transmission begins.

[5]

10 Complete the table to give the missing term or description for the internet terms.

Internet term	Description
.....	the collection of web pages accessed using the internet
.....	the address given to a device when it connects to the internet
web browser
.....	the hardware that stores a database of matching website and IP addresses
.....	a type of hardware that can be used to prevent a distributed denial of service (DDoS) attack
hacking

11 (a) Complete the statements about cookies.

Use only terms from the list.

Not all terms need to be used. Some terms may be used more than once.

- binaryclosebinaryexpire
- hexadecimalimagemalwareoperating system
- permanentpersistentsessionsound
- temporaryweb browser

Cookies are small text files that are stored by a

..... cookies are text files
that are deleted when the is closed.

..... cookies are text files
that are stored on a user's secondary storage device until they are manually deleted or they
.....

[7]

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

- 1
-
- 2
-
- 3
-

[3]