# 5. The Internet and Its Uses

5.1 The internet and the world wide web

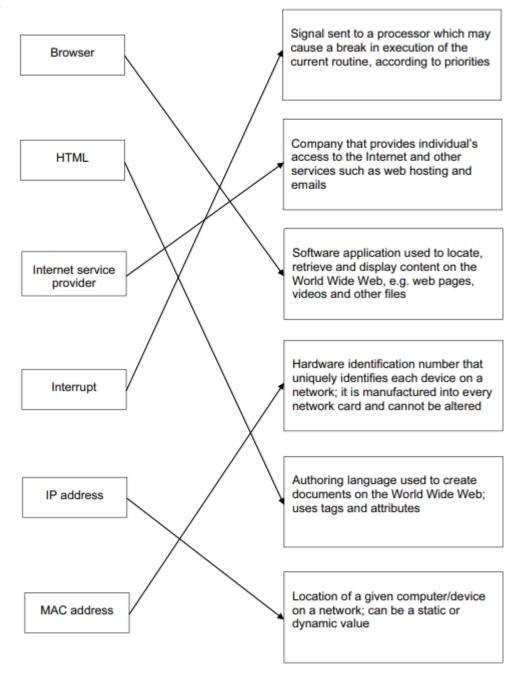
Marking scheme

Q1)

(a)

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

#### Q2)



Q3)

#### (a) Any three from:

- hypertext mark-up language
- used to create/develop/author webpages
- translated by a browser to display webpages
- uses (opening and closing) tags to display/format content

[3]

#### (b) Structure:

instructs how the <u>layout</u> of the content is displayed

#### Presentation:

instructs how the content will be formatted e.g. colour/style/CSS

[2]

#### (c) Any three from:

- displays web page
- interprets/translates the HTML document
- interprets/translates embedded scripting, for example JavaScript
- provides functions, such as bookmarks and history
- identifies protocols, such as https, SSL

[3]

#### Q4)

Question	Answer	Marks
(c)	Two from: Displays web pages by rendering HTML	2
(b).	Any three from: e.g. Storing bookmarks/favourites Recording user history Allowing use of multiple tabs Providing navigation tools // by example Providing an address bar Managing protocols // by example // checking digital certificate Send URL to DNS Sends a request to the IP address/web server (to obtain the contents of a webpage) Runs active script/JavaScript/client-side script Allows files to be downloaded from website/internet	3
(e)	Any four from:  Session cookies are stored in memory/RAM  whereas persistent cookies are stored on the hard drive/secondary storage  When the browser is closed a session cookie is lost  whereas a persistent cookie is not lost  until deleted by the user/they expire	4

## Q5)

Question	Answer	Marks
6(a)	One mark for each correct term.  Text  Web browser // web server  Web server // web browser  Session  Session  Persistent	6
,(b)	Any three from: e.g. • Saving personal details • Storing login details • Tracking user preferences • Holding items in an online shopping cart	3

#### Q6)

Question	Answer		
	Term Descrip	ption 6	
	world wide web the collective name web pages available		
	cookie a small text file, st web browser, that user's personal da	t can store a	
	uniform resource locator (URL) the <b>text-based ad</b> website // It is mad protocol, domain it filename/folder na	de up of the name and	
	web server Stores web pages requests from clie requested web pages	ents and returns	
	hypertext markup language // HTML the language used website. Example <head> and <body< th=""><th>tags are</th></body<></head>	tags are	
	hypertext transfer protocol // a protocol that is u and send web page		

## Q7)

Question	Answer	Marks
(a)	Any <b>two</b> from:  - Display web pages  by rendering HTML	2
(b)	Storing cookies	1
,(c)	Any <b>one</b> from:  - Storing bookmarks  - Storing favourites	1
(d)	Any one from:  - It encrypts it  - Uses digital certificates	1

## Q8)

Question	Answer	Marks
(a)	Any <b>two</b> from:  The internet is the infrastructure  The world wide web is a collection of web pages	2
(b)	Protocol Domain name File name // web page name	3
(c)	Any three from:  Example:  Displays a web page Storing bookmarks/favourites Recording user history Allowing use of multiple tabs Storing cookies Providing navigation tools Can set a home page	3

## Q9)

Question	Answer	Marks
. (a)	A text-based address for a website/web page	1
(b)	Any two from:  Protocol Domain name File name	2
(c)	Web browser	1
Question	Answer	Marks
(d)	One mark for each correct part of the diagram.  The diagram shows:  • URL sent from web browser to the DNS • DNS finding matching IP address • If it cannot find the URL, it is sent to the next DNS (until found) • IP address returned to web browser • Request sent from web browser to web server (for web page) • Web page/HTML files sent from web server to web browser • Web browser rendering HTML  For example:  Searches for matching IP address  URL sent to DNS  URL sent to DNS  DNS  Sent to next DNS if URL not found  Web server  Web server	5

Question	Answer	Marks
(e)	One mark for each correct term in the correct order:	5
	<ul> <li>Web browser</li> <li>Web server</li> <li>Web browser</li> <li>Encrypted</li> </ul>	

## Q10)

Question	Answer	Marks
-	One mark for each correct term or description in the correct place.	6
	Term  World wide web // WWW  IP (address)  Domain name server // DNS  Proxy server	
	Description  (Web browser) Software/application that allows users to view/access web pages by rendering HTML  (Hacking) Gaining unauthorised access to a computer/system	

## Q11)

Question	Answer	Marks
(a)	One mark for each correct term in the correct order:  • web browser • session • temporary • web browser // session • persistent • permanent • expire	7
(b)	Any three from:  For example:  User preferences // by example Login details Payment details User's personal details e.g. address Contents of a shopping cart Targeted advertising	3