MODULE F THE INTERNET · F3

Web browsers and what they do: mark scheme

20 marks · Cambridge 0478 syllabus 5.1.4 (purpose and functions of a web browser)

How to use. One mark per creditworthy point up to the maximum shown. **/** separates alternative words; **//** separates alternative answers. Words in (brackets) are not needed for the mark. Credit any other valid answer that shows the same understanding.

QUESTION	ANSWER	MARKS	GUIDANCE
1(a) 0478 5.1.4	To render HTML and display web pages	**1**	Two or more boxes ticked scores 0.
1(b) 0478 5.1.4	HTML // hypertext markup language	**1**	Ignore capitals and spacing ("hyper text"). Do not accept HTTP / HTTPS (these are protocols).
2(a) 0478 5.1.4	Bookmark stores the URL: True Multiple tabs, several pages in one window: True Stores cookies on the web server: False Hardware device: False	**4**	One mark per correct row. A row with both boxes ticked scores 0.
3(a) 0478 5.1.4	One mark for each correct row: Saved dictionary page: (storing) bookmarks // favourites Page visited yesterday: (recording) user history // browsing history Several pages open in one window: (allowing use of) multiple tabs Loads the page again: navigation tools // refresh / reload (button) Kept logged in between visits: (storing) cookies // persistent cookies	**5**	The type of cookie is not needed in row 5. Do not accept "history" in row 1 (the page was deliberately saved). Do not accept "address bar" alone in row 4.

4(a) 0478 5.1.4	Any two from:
	Back (button) // go to the previous page
	Forward (button) // go to the next page (after going back)
	Home (button) // go to the home page
	Stop (loading a page)
	(Clickable) links / hyperlinks (to move between pages)
		2	max 2. Do not accept refresh / reload (excluded by the question). Do not accept the same tool twice (e.g. "back" and "previous page").

QUESTION	ANSWER	MARKS	GUIDANCE
4(b) 0478 5.1.4	Any one from: To type / enter a URL / web address (to go to a web page) To show the URL / address of the page currently open To show whether the page uses HTTPS // shows a padlock To type search terms (to search the web)	**1**	max 1. Allow "to type in a (web server's) IP address to open a page". Do not accept "to search" alone with no reference to typing in the bar.
5(a) 0478 5.1.4	Any one pair: A bookmark is saved by the user (on purpose) ... ... the history is recorded automatically (by the browser) *or* A bookmark is kept only for pages the user chooses ... ... the history lists every / all page(s) visited	**2**	One mark for the bookmark side, one for the history side; the history point must be the opposite of the bookmark point. A correct description of only one side scores 1. Do not accept "a bookmark is better / quicker" alone.
6(a) 0478 5.1.4	Any four from: The browser requests the page from the web server (using its URL) The browser receives the HTML (file) from the web server HTML is a markup language // code / tags that describe the content and layout / structure of the page The browser reads / interprets the HTML (tags) The browser renders the HTML // works out how each part of the page should look and where it goes The browser displays the page on the screen (as formatted headings, text, photo) The browser fetches / loads other files the page uses (e.g. the photo) The browser makes the links clickable // lets the customer follow links to other pages	**4**	max 4. At least one mark must come from rendering / displaying the HTML; otherwise max 3. Do not accept "the browser converts the URL into an IP address" (that is the DNS) or "the browser stores the website" (that is the web server). Do not accept "translates the page into binary".

Total: 20 marks