Cambridge Assessment International Education

Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY **0417/03**

Paper 3 Spreadsheets and Website Authoring **October/November 2024**

2 hours 15 minutes

You will need: Candidate source files (listed on page 2)

INSTRUCTIONS

- Carry out **all** instructions in each step.
- Enter your name, centre number and candidate number on every printout before it is sent to the printer.
- Printouts with handwritten candidate details will **not** be marked.
- At the end of the examination, put all your printouts into the Assessment Record Folder.
- If you have produced rough copies of printouts, put a cross through each one to indicate that it is **not** the copy to be marked.
- You must **not** have access to either the internet or any email system during this examination.

INFORMATION

- The total mark for this paper is 70.
- The number of marks for each question or part question is shown in brackets [ ].

This document has **8** pages. Any blank pages are indicated.

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You have been supplied with the following source files:

n24css.htm
n24hits.csv
n24html.htm
n24logo.png
n24web.css
n24web.htm

Task 1 – Evidence Document

Create a new word-processed document.

Make sure your name, centre number and candidate number will appear on every page of this document.

Save this document in your work area as **n24evidence_** followed by your centre number_candidate number, for example n24evidence_ZZ999_9999

You will use this as your Evidence Document during the examination.

Task 2 – Spreadsheet

You work for Tawara Web Developers and will edit a spreadsheet that analyses data on web page hits and advertising.

1 Open and examine the file **n24hits.csv**

Rows 9 to 38 show the number of hits on (visits to) each web page during a 24-hour period. The number of hits for each hour are stored in columns F to AC.

Place your name, centre number and candidate number on the left in the header.

Place the text **Created on** followed by a space then the automated date on the right in the header.

Save this as a spreadsheet with the filename **hits_** followed by your centre number_candidate number, for example hits_ZZ999_9999

[2]

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2 Format all data in rows 9 to 38 to be centre-aligned.

Format rows 1 to 8 of the spreadsheet so that it looks like this:

	A	B	C	D	E	F
1	Web page analysis for yesterday					
2						
3	**Number of web pages with:**			**Traffic thresholds**		**Rate**
4	High traffic			High	400	$0.0004
5	Medium traffic			Medium	250	$0.0003
6	Low traffic			Low	0	$0.0002
7						
8	**Web page**	**Total number of hits**	**Average hourly number of hits**	**Traffic level**	**Advertising revenue**	**0:00-0:59**
9	40173					
10	40173a					
11	40173b					

Make sure cells A1 to F1 and D3 to E3 are merged.

Make sure the text in row 1 is in a 24-point font.

[9]

3 Place a replicable formula in cell B9 to calculate the number of hits for the web page 40173 during the 24-hour period. [1]

4 Place a replicable formula in cell C9 to calculate the average number of hits per hour for this web page. [1]

5 Place a replicable formula in cell D9, using nested IF functions, to display the text from cells D4, D5 or D6 when the content of cell C9 is greater than the traffic threshold. [9]

6 Place a replicable formula in cell E9 to look up the rate for this *Traffic level* and multiply it by the total number of hits for this web page. [6]

7 Replicate the formulae entered in steps 3 to 6 for all web pages. [1]

8 Format cells E9 to E38 as currency in dollars, to two decimal places. [1]

9 Place a replicable formula in cell B4 to count the number of web pages with high traffic. Replicate this formula for medium and low traffic.

Save your spreadsheet.

[5]

10 Print only cells A1 to F38 showing the formulae. Make sure that:

- the printout is in portrait orientation
- the row and column headings are displayed
- the contents of these cells are fully visible.

[2]

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11 Apply conditional formatting to cells D9 to D38 inclusive to display:

- a green background if the cell contains *High*
- an orange background if the cell contains *Medium*
- a red background if the cell contains *Low*.

Make sure that the text in each cell is clearly visible.

Take a screenshot of your method, making sure that the formatting set and range of cells are clearly visible. Place this screenshot in your Evidence Document.

[5]

12 Change the font colour of cells F8 to AC38 to white so that the contents of these cells are not visible.

Print only columns A to F inclusive showing the values. Make sure that:

- the printout fits on a single page
- the printout is in portrait orientation
- the row and column headings are **not** displayed
- the contents of all cells in columns A to F, except those cells where the font colour is white, are fully visible.

[4]

[Total: 46]

Task 3 – File management

Create a new folder called **n24**

Locate only the following files and store them in your *n24* folder.

n24css.htm
n24html.htm
n24logo.png
n24web.css
n24web.htm

Task 4 – Web Page

You will create a web page to help trainees learn HTML.

13 Open the stylesheet **n24web.css** in an editor.

Add a new class called **red** that sets the font colour to the hexadecimal code for red when this class is applied.

Add a new class called **centre** that centre-aligns text when the class is applied.

Save your stylesheet.

Take a screenshot to show the contents of your stylesheet and place this in your Evidence Document. Make sure all the contents are clearly visible.

[3]

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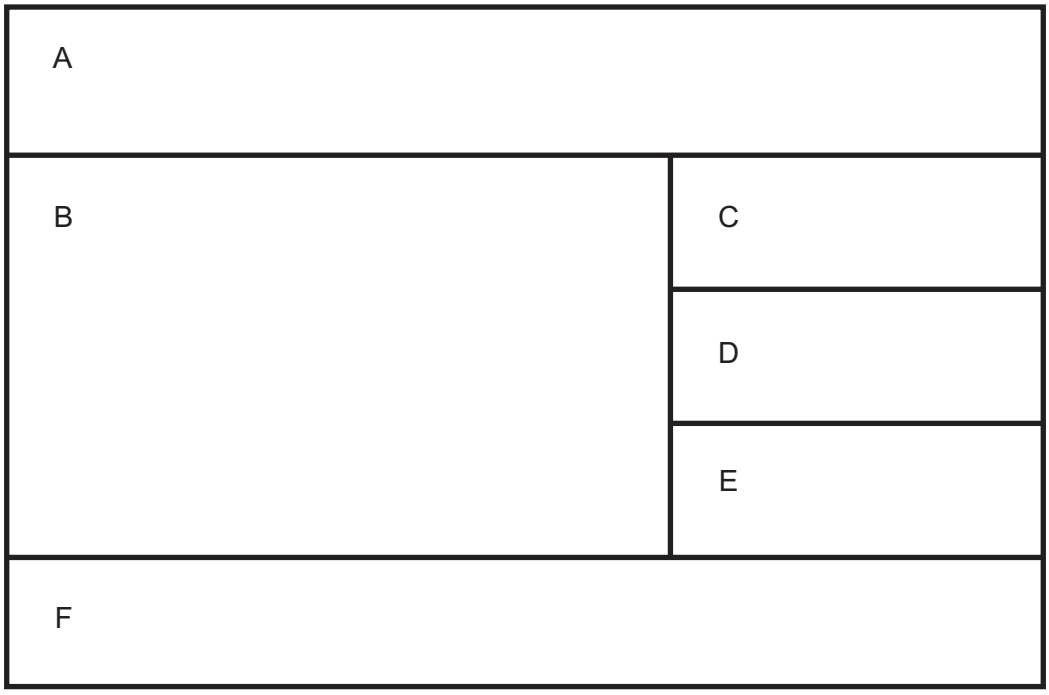
14 Open and examine the web page called **n24web.htm**

The web page and attached stylesheet have been created for you. The web page appears like this:



Each table cell in this diagram is identified with a letter which must **not** appear on your final web page.

Edit the HTML so that table borders do **not** appear on the final web page.

Replace the text *A Candidate ZZ999 9999* with your name, centre number and candidate number.

Save your web page in your *n24* folder with the file name **webpage_** followed by your centre number_candidate number, for example webpage_ZZ999_9999

[1]

15 Set all the text in cell A into style h1

Set the text **Web Development Layers** in cell B in style h2

Set all other paragraphs of text in cell B in style h3

Apply the class **red** to only the text:

1. Content layer
2. Presentation layer
3. Behaviour layer

Set the text in cells C and D into style h2 with a class set to **red**

Set both paragraphs of the text in cell E into style h3 with a class set to **centre**

Set the first line of text in cell F into paragraph style. Set the other three paragraphs in cell F as a bulleted list.

[9]

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16 Set the title of the web page to **Web programming tips** [1]

17 In the HTML set the name of the default target window to **_self** [1]

18 Set the text in cell C as a link to open the web page **n24html.htm** [2]

19 Set the text in cell D as a link to open the web page **n24css.htm** in a new window called **_blank** [2]

20 Place metadata in the appropriate section of your HTML to:

- define the character set as **UTF-8**
- add a description of the web page.

[4]

21 Save your web page.

Take a copy of your HTML source and place this in your Evidence Document.

Display your web page in a browser. If necessary, resize it so that:

- the entire page can be seen
- all the text can be easily read
- the address bar is fully visible.

Take screenshot evidence showing your web page in the browser. Place this in your Evidence Document.

[1]

[Total: 24]

Task 5 – Printing the Evidence Document

Make sure your name, centre number and candidate number appear on every page of your Evidence Document.

Save your Evidence Document.

Print your Evidence Document.

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