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0417/31

February/March 2019

2 hours 30 minutes

Additional Materials: Candidate Source Files are required.

You must **not** have access to either the internet or any email system during this examination.

Write today's date in the box below.

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This syllabus is regulated for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **8** printed pages.

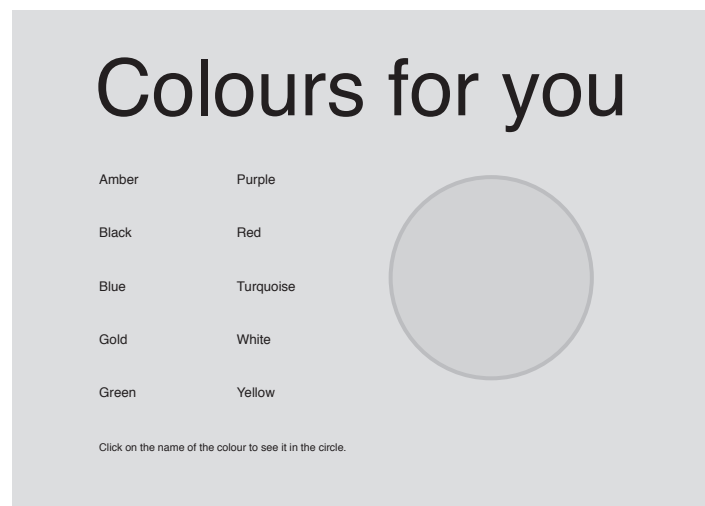
Task 1 – Evidence Document

- Open the file **m1931evidence.rtf**
- Make sure your name, centre number and candidate number appear on every page of your Evidence Document by placing these in the header.
- Save this as a word processed document in your work area with the file name **m1931evidence** followed by your candidate number, for example, **m1931evidence9999** ✓

You will need to place screenshots and your answers in this Evidence Document.

Task 2 – Web Page

You will evaluate a web page designed for children aged 2 to 3 to help them identify colours. When they click on a word, the name of the colour is output through speakers and the colour appears in the circle. The web page looks like this:



- 1 • Evaluate this web page for the intended audience. ✓ [4]

EVIDENCE 1

Type your evaluation into your Evidence Document using no more than 100 words.

- 2 • State the most appropriate web development layer to:
- set the background colour of all pages in a website
 - create a hyperlink to another web page
 - collapse all table borders
 - enlarge an image when the user hovers the cursor over it. ✓

[4]

EVIDENCE 2

Type your answers into your Evidence Document.

You work for Hothouse Design and will develop web pages for a small British company called Gloria's Glorious Gardens.

Efficient markup and stylesheets must be used. All colour codes must be in hexadecimal.

- Create a new folder called **GGG_html**
- Locate the following files and store them in your *GGG_html* folder.

Apple.jpg
Camellia.jpg
Cherry.jpg
Forsythia.jpg
GGGlogo.png
GGGstyle.css
GGGtext.txt
Lilac.jpg

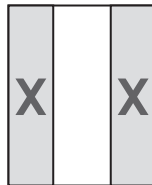


- 3
- Open and resize the image **Lilac.jpg** so that it is **672** pixels wide and **896** pixels high.
 - Save the image with the file name **Lilac1.jpg**



[1]

- 4
- Remove the left and right of the image to make it **271** pixels wide and **896** pixels high, like this:



- Save the image with the file name **Lilac2.jpg**



[2]

- 5
- Display the contents of your *GGG_html* folder showing the folder name, all file names, extensions, file sizes and image dimensions.

[1]

EVIDENCE 3

Take a screenshot of your GGG_html folder and place this in your Evidence Document.

- 6 • Create a web page called **Spring.htm**
- This web page must work in all browsers and will have a table structure as shown below:

A 800 × 100		
B 300 × 225	C 225 × 225	D 275 × 900
E 300 × 225	F 225 × 225	
G 300 × 225	H 225 × 225	
I 300 × 225	J 225 × 225	
K 800 × 150		

- Each table cell is identified with a letter and all dimensions are in pixels. The letters and dimensions shown in the table must **not** appear on your final web page.
- All table borders must be visible and have a width of **2** pixels.

[13]

- 7 • Place in cell A the text:

Spring flowering trees and shrubs

- Set this text as style h1.

[2]

- 8 • Place in cell:

- C the text **Apple**
- F the text **Camellia**
- H the text **Cherry**
- J the text **Forsythia**

- Set this text as style h2.

[2]

- 9 • Place in cell:
- D the image *Lilac2.jpg* saved in step 4
 - B the image of the Apple tree
 - E the image of the Camellia
 - G the image of the Cherry tree
 - I the image of the Forsythia.
- In the markup, resize each of these images to 290 pixels wide while maintaining the aspect ratio. [3]
- 10 • Place in cell K the text from the file **GGGtext.txt**
- Replace the text *<insert your name, centre number and candidate number here>* with your name, centre number and candidate number.
 - Set this text as style h3. [2]
- 11 • Make only the text *link* a hyperlink to send an email message to:
- hothouse-design@cambridgeinternational.org** with the subject line **Ask the expert** [5]
- 12 • Make sure appropriate text is displayed if an image is not available. [1]
- 13 • Attach the stylesheet **GGGstyle.css** to your web page.
- Save the web page in your *GGG_html* folder. [1]

*You will create a second stylesheet using the most efficient syntax. Make sure your stylesheet does **not** contain any html.*

- 14 • Create a new stylesheet called **GGG** followed by your candidate number, for example: **GGG9999.css**
- Place your name, centre number and candidate number as a comment at the bottom of this stylesheet.
 - Edit this stylesheet so that:
 - the image *GGGlogo.png* becomes the single background image placed at the top right of each page
 - all tables are left aligned in the browser
 - all table borders are visible and **2** pixels wide.
 - Save your stylesheet and attach it to your web page. Make sure that your new stylesheet has a higher priority than *GGGstyle.css* [9]

- Display the web page in your browser. If necessary, resize it so that:
 - all the page can be seen
 - all text can be easily read
 - the address bar is visible.

EVIDENCE 4

Take screenshot(s) of the browser window and place this in your Evidence Document.

- Display the html source in your editor.

EVIDENCE 5

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

- Display the new stylesheet in your editor.

EVIDENCE 6

Take a copy of your new stylesheet and place this in your Evidence Document.

[Total: 50]

Task 3 – Spreadsheet

You are going to prepare a spreadsheet model for use by employees of Gloria's Glorious Gardens.

- 15** • Open these files in a spreadsheet package and examine their contents:
- **Trees.csv**
 - **Category.csv**
 - **TreeCodes.csv**
- In the *Trees* spreadsheet place:
- your name, centre number and candidate number on the right in the header
 - an automated file name including the file path on the left in the footer.

[2]

- 16** • In the *Trees* spreadsheet, insert three new rows before row 1.
- Edit the file so that it looks like this:

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<i>Gloria's Glorious Gardens</i>												
2	Native British trees and shrubs												
3													
4	Common name	Latin name	Code	Category	Height (m)	Lcode	Tcode	Dcode	Likes	Tolerates	Dislikes	Evergreen	Notes
5	Alder	Alnus glutinosa	LT		25		W					N	

- Save this as a spreadsheet with the file name **Trees_** followed by your centre number and candidate number, for example, **Trees_ZZ999_9999**

[9]

- 17 • Take a screenshot showing only cells A1 to M5 of your spreadsheet, including the row and column headings. Make sure the contents of the cells are fully visible. [1]

EVIDENCE 7

Place this screenshot in your Evidence Document.

- 18 • Enter a function in cell D5 to look up the *Type* of tree or shrub from the source file *Category.csv*
- Do **not** edit this source file.
- [5]

The *Lcode*, *Tcode* and *Dcode* columns hold codes for whether a tree or shrub *Likes*, *Tolerates* or *Dislikes* certain environmental factors.

- 19 • Enter functions in cells I5, J5 and K5 to look up the *Environment factors* from the source file *TreeCodes.csv*
- Do **not** edit this source file.
 - Make sure that when these functions are used they do not display any error messages.
- [6]

- 20 • Replicate the functions entered in steps 18 and 19 so that the results are displayed for all trees. [1]

- 21 • Hide columns C, F, G and H [1]

- 22 • Save and print the spreadsheet showing the formulae. Make sure:
- only rows 1-29 are visible
 - it is in landscape orientation
 - row and column headings are displayed
 - the contents of all cells are fully visible.
- [1]

PRINTOUT 1

Make sure that you have entered your **name**, **centre number** and **candidate number** on your spreadsheet showing the formulae.

- 23 • Create a spreadsheet extract from the data to show trees or shrubs that are:
- a small tree, large shrub or medium shrub
 - evergreen
- The extract must display only the *Common name*, *Likes*, *Tolerates*, *Dislikes*, *Evergreen* and *Notes* columns for the selected data.
- Print the spreadsheet extract showing the values. Make sure the:
- printout fits on a single page
 - header, footer and contents of the specified cells are fully visible.

[4]

PRINTOUT 2

Make sure that you have entered your **name**, **centre number** and **candidate number** on your spreadsheet showing the extracted values.

- Save and print your Evidence Document.

PRINTOUT 3

Make sure that you have entered your **name**, **centre number** and **candidate number** on your Evidence Document.

[Total: 30]

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