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0417/03

October/November 2018

2 hours 30 minutes

Additional Materials: Candidate Source Files

READ THESE INSTRUCTIONS FIRST

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

If you have produced rough copies of printouts, put a neat cross through each one to indicate that it is **not** the copy to be marked.

Any businesses described in this paper are entirely fictitious.

The number of marks is given in brackets [] at the end of each question or part question.

Write today's date in the box below.

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

This document consists of 7 printed pages and 1 blank page.

Task 1 – Evidence Document

- Open the file **n183evidence.rtf**
- Make sure your name, Centre number and candidate number will appear on every page of your Evidence Document by placing these details in the header.
- Save this as a word processed document in your work area with the filename **n183evidence** followed by your candidate number, for example, **n183evidence9999**

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

Task 2 – Web Page

You will develop a web page for the construction department of Sheila's Steel Sheds.

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

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

n183construct.png

n183tablestyle.css

ssslogo.jpg

- 1 *The table styles required by the company are:*

All internal and external gridlines for the table must be a single border 4 pixels wide which can be seen on the web page. The gridlines should be defined as:

Table gridlines	Colour components – in hexadecimal		
	Blue	Green	Red
<i>External lines</i>	<i>0</i>	<i>0</i>	<i>Full red</i>
<i>Internal lines</i>	<i>33</i>	<i>57</i>	<i>ff</i>

All text should be centre aligned within the table both horizontally and vertically.

- John, a trainee has created a stylesheet **n183tablestyle.css** for these table styles. Examine the stylesheet and evaluate in your own words the syntax and efficiency of the stylesheet.

EVIDENCE 1

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

[4]

- 2
- Edit the trainee's stylesheet so that it matches the table styles required by the company.
 - Add css to your stylesheet to:
 - automatically place all tables in the centre of the window
 - set the style h1 to a white font.
 - Add your name, Centre number and candidate number to the end of this stylesheet as a comment.
 - Save your stylesheet as **table** followed by your candidate number, for example, **table9999.css**
- [7]

EVIDENCE 2

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

- 3
- Identify the name of the correct web development layer to complete each of the following statements:
 - (a) The cascading stylesheets are part of the _____ layer in website development.
 - (b) Hyperlinks are an action in a web page and they are part of the _____ layer.
 - (c) The text and images of a web page are added to a web page in the _____ layer.
 - (d) An action like 'hover over' or 'on click' would be found in the _____ layer.

[4]

EVIDENCE 3

Type the name of each web development layer into your Evidence Document.

- 4 • Create a web page called **sheds.htm**

This web page must work in all browsers and will have a table structure as shown below:

A 810 × 130	
B 600 × 600	C 210 × 150
	D 210 × 150
	E 210 × 150
	F 210 × 150
G 810 × 80	

- 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.

[8]

- 5 • The image **ssslogo.jpg** has been created but has white corners. Edit the image to remove these corners. Save the image with a new file format as **ssslogo.png**
- Place in cell A the image *ssslogo.png*

[3]

- 6 • Place in cell B the image **n183construct.png**
- Resize this image in your markup so that it is 600 pixels square.

[2]

- 7
- Place the text:
 - **Specialist Steel Sheds** in cell C
 - **Aluminium Sheds** in cell D
 - **Gallery** in cell E
 - **About Us** in cell F
 - **Web page created by:** followed by your name, Centre number and candidate number in cell G
 - Set all this text as style h1. [3]
- 8
- Attach the stylesheet that you saved in step 2 to your web page.
 - Save the web page in your *Sheds* folder. [1]
- 9
- Display the web page in your browser. If necessary, resize it so that:
 - all of the web page can be seen
 - all of the text can be easily read
 - the address bar is visible.
 - Take a single screenshot of the browser window and place this in your Evidence Document. [1]

EVIDENCE 4

Place the single screenshot of the browser window in your Evidence Document.

EVIDENCE 5

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

[Total: 33]

Task 3 – Spreadsheet

You are going to prepare a spreadsheet to calculate the storage capacity and sales price for each type of shed.

Use the most efficient methods to solve each task.

Display all:

- currency values in dollars to 2 decimal places
- lengths to 1 decimal place (any length, width or height)
- areas to 2 decimal places
- capacities to 3 decimal places.

- 10 • Using a suitable software package, load the file **n183shed.csv**
- Add your name, Centre number and candidate number in the header or footer of the spreadsheet.
 - Save this file as a spreadsheet called **shed_** followed by your candidate number, for example, **shed_9999**
 - Insert 5 new rows at the top of the spreadsheet.

[1]

- 11 • Add these labels and format the cells to look like this:

	A	B	C	D	E	F	G	H	I	J	K
1	Sheila's Steel Sheds										
2											
3	Cost of steel per square metre	Cost factor									
4	\$1.54	2.6									
5											
6	Style	Length	Width	Wall height	Apex height	Floor area	Cubic capacity	Roof area	Surface area	Cost of materials	Sales price

[6]

- 12 • Enter a formula in cell F7 to calculate the floor area of the shed in square metres. The floor area is the *Length* multiplied by the *Width* of the shed.

[1]

- 13 • Enter a formula in cell G7 to calculate the cubic capacity of the shed in cubic metres.

$$\text{The cubic capacity is: } \frac{\text{Apex height} + \text{Wall height}}{2} \times \text{Floor area}$$

[4]

- 14 • Enter a formula in cell H7 to calculate the roof area of the shed.

$$\text{Roof area} = 2 \times \text{Length} \times \sqrt{\left(\frac{\text{Width}}{2}\right)^2 + (\text{Apex height} - \text{Wall height})^2}$$

[10]

- 15 • Enter a formula in cell I7 to calculate the surface area of the shed.

$$\text{Surface area} = 2 \times \text{Wall height} \times (\text{Length} + \text{Width}) + \text{Width} \times (\text{Apex height} + \text{Wall height}) + \text{Roof area}$$

[6]

- 16 • Enter a formula in cell J7 to calculate the cost of materials to make the shed.

$$\text{Cost of materials} = \text{Surface area} \times \text{Cost of steel per square metre}$$
 [2]
- 17 • Enter a formula in cell K7 to calculate the sales price of the shed.
 This is the *Cost of materials* multiplied by the *Cost factor* rounded up to the nearest \$10 [4]
- 18 • Enter a formula in cell L7 to display the text **Extra Large** if the cubic capacity of the shed is greater than 14 metres³ and the floor area is greater than 7 metres², or if not leave the cell blank. [5]
- 19 • Replicate the formulae entered in steps 12 to 18 for each style of shed. [1]
- 20 • Apply appropriate formatting to all cells in rows 7 to 19. [4]
- 21 • Save and print the spreadsheet showing the formulae. Make sure: [2]
- it is in landscape orientation
 - row and column headings are displayed
 - the contents of all cells are fully visible.

PRINTOUT 1

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

- 22 • Print the spreadsheet showing the values. Make sure the: [1]
- printout fits on a single page
 - contents of all cells are fully visible.

PRINTOUT 2

Make sure that you have entered your **name**, **Centre number** and **candidate number** on your spreadsheet showing the 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: 47]

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