Cambridge IGCSE

Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

INFORMATION AND COMMUNICATION TECHNOLOGY **0417/31**

Paper 3 Data Analysis and Website Authoring **May/June 2016**

2 hours 30 minutes

Additional Materials: Candidate Source Files

READ THESE INSTRUCTIONS FIRST

Write your name, Centre number and candidate number in the spaces at the top of this page.
Write in dark blue or black pen.
Do not use staples, paper clips, glue or correction fluid.
DO **NOT** WRITE IN ANY BARCODES.

Carry out **all** instructions in each step. You can track your progress through the examination by crossing out each question number.
Enter your **name**, **Centre number** and **candidate number** on every printout before it is sent to the printer.
Printouts with handwritten candidate details on will **not** be marked.

At the end of the examination put this **Question Paper** and **all your printouts** into the Assessment Record Folder.
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.

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.

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

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[Turn over

Task 1 – Evidence Document

- Open the file **1631evidence.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 Evidence Document, as a word processed document, in your work area as **1631evidence** followed by your candidate number. For example,1631evidence9999

You will need your Evidence Document during the examination to enter answers to questions and to place your screenshots in when required.

Task 2 – Web Page

You are going to help some trainees develop web pages for The Manta Conservation Project. The first web page will be part of a website used to raise awareness of, and get donations for, conservation projects around the world.

1 • Create a new folder called **1631_html**

2 • Locate the following files and place them in your 1631_html folder.

    1631flags.pdf

    1631img1.png

    1631img2.png

    1631img3.png

    1631img4.png

    1631img5.png

    1631img6.png

    1631img7.png

    1631logo.png

    1631maldives.htm

    1631manta.htm

    1631manta.jpg

    1631manta1.tif

    1631stylesheet.css

3   A trainee has started to create a single stylesheet to be used with the website. The stylesheet was not finished and contains a number of errors.

- Open the stylesheet **1631stylesheet.css** in a suitable software package.

The web page and stylesheet must work in any browser. All colour codes are in hexadecimal. Make sure your stylesheet contains no html. The specifications for this stylesheet are:

table	Gridlines:	All gridlines solid Internal gridlines 1 pixel thick External gridlines 2 pixels thick
	Borders:	All borders collapsed
	Headers:	No table header details specified
h1	Colour:	Red 33, Green 0, Blue 66
	Font:	**Helvetica Neue**, but if not available then **Calibri**, or if these fonts are not available, the browser's default sans-serif font 36 points high Alignment centre
h2	Colour:	Blue 99, Red 33, Green 0
	Font:	Arial 18 points high Alignment right
p	Colour:	Red 0, Green 0, Blue 08
	Font:	the browser's default sans-serif font 14 points high Alignment left
body	Background colour:	Red 99, Green CC, Blue FF

- Correct and complete this stylesheet using the information above.
- Save this stylesheet in your **1631_html** folder. Use the file name **1631st** followed by your candidate number. For example, if your candidate number is 9999 then you will call the file 1631st9999.css   [20]

> **EVIDENCE 1**
>
> Take a screenshot showing the content of your stylesheet and place this in your Evidence Document. Make sure that the file name is clearly visible.

4   •   Analyse the stylesheet started by the trainee and evaluate its contents.   [4]

> **EVIDENCE 2**
>
> Type your evaluation into your Evidence Document using no more than 100 words.

5 • Open the file **1631manta.htm** using a suitable software package.
  • Attach the stylesheet saved in step 3 to this web page. [1]

6 • Replace the text *candidate name, Centre number, candidate number* with your name, Centre number and candidate number. [1]

7 • Replace the text *Place logo here* with the image **1631logo.png**
  • Make sure that appropriate text is displayed if this image is not available. [2]

8 • Make the image *1631logo.png* a hyperlink to send an email message to **tmcp@cie.org.uk** with a subject line **Tell me more** [5]

9 • Select the most appropriate images from those saved in Step 2 and use them to replace the following text:

  ○ *Place flag of Fiji here*

  ○ *Place flag of Honduras here*

  ○ *Place flag of Indonesia here*

  ○ *Place flag of Maldives here*

  You may use the file **1631flags.pdf** to help you.

  • Resize each of these images to be 140 pixels wide, maintaining the aspect ratio.
  • Save the web page. [3]

EVIDENCE 3

Display the web page in your browser. Take screenshot evidence of the web page in the browser and place this in your Evidence Document.

EVIDENCE 4

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

The trainee has started to develop the Maldives page for this site. The image 1631manta1.tif has been supplied to them to be included on this page.

10 • Examine the file **1631manta1.tif**. Explain in your Evidence Document why this image is unsuitable for inclusion on the Maldives web page and what you could do to enable it to be used. [4]

EVIDENCE 5

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

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11 •   Edit the file **1631manta1.tif** to make it suitable for a web page.
   •   Place this image in the web page **1631maldives.htm** so that it replaces the text *Place image 1631maldives here*   [4]

> **EVIDENCE 6**
>
> Take screenshot(s) to show how you edited the file and place this in your Evidence Document.

12 •   Attach the stylesheet saved in step 3 to this web page.   [1]

13 •   Replace the text *candidate name, Centre number, candidate number* with your name, Centre number and candidate number.
   •   Save the web page.   [1]

> **EVIDENCE 7**
>
> Display the web page in your browser. Take screenshot evidence of the web page in the browser and place this in your Evidence Document.

> **EVIDENCE 8**
>
> Take a copy of the HTML source and place this in your Evidence Document.

[Total: 46]

Task 3 – Spreadsheet

You are going to prepare a spreadsheet to manage the budgets and create charts comparing 6 global projects. Unless working in local currencies, display all currency values rounded to the nearest US dollar. The file **1631currency.csv** *contains information about countries and their currencies. Make sure that you use the most efficient methods to do each task.*

14 • Using a suitable software package, load the file **1631sheet.csv**
   • Save this file as a spreadsheet with the file name **1631_** and your Centre number and candidate number. For example, 1631_ZZ999_9999
   • Insert 2 new rows above row 1.   [1]

15 • In cell A1 enter the title **TMCP Projects 2016**
   • In cell A2 enter your name, Centre number and candidate number.   [1]

16 • Merge cells A1 to H1.
   • Format this cell so that:
     ○ text is centre aligned with a white, 36 point, sans-serif font
     ○ it has a black background colour.   [4]

17 • In cell B4 enter a function to look up, from the external file **1631currency.csv**, the name of the currency for Honduras.   [6]

18 • In cell B5 enter a function to total the *Amount* of money in local currency for the Honduras project.   [4]

19 • In cell B6 enter a formula to look up, from the external file **1631currency.csv**, the exchange rate from the local currency to US dollars for Honduras. Multiply this value by the total for the local currency, rounded to the nearest dollar.   [5]

20 • Replicate the formulae entered in steps 17, 18 and 19 for each project.   [1]

21 • In cell H6 enter a function to add the total income in US dollars.   [1]

22 • Sort the list of individual donations into ascending order of *Project* then descending order of *Amount*   [2]

23 • Apply appropriate formatting to all cells in rows 3 to 6 inclusive.   [4]

24 • Save your spreadsheet.
   • Print only the cells A1 to I6 showing the formulae. Make sure:
      ○ it is in landscape orientation
      ○ the row and column headings are displayed
      ○ the contents of these cells are fully visible. [2]

> **PRINTOUT 1**
>
> Make sure that you have entered your **name**, **Centre number** and **candidate number** on your spreadsheet showing the formulae.

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

> **PRINTOUT 2**
>
> Make sure that you have entered your **name**, **Centre number** and **candidate number** on your spreadsheet showing the values.

26 • Extract only the data for Fiji and the Maldives, where the *Amount* of the donation was more than 90
   • Print only this extract showing the values. Make sure the:
      ○ printout fits on a single page wide
      ○ contents of all cells are fully visible. [2]

> **PRINTOUT 3**
>
> Make sure that you have entered your **name**, **Centre number** and **candidate number** on your spreadsheet showing the values.

27 Save and print your Evidence Document.

> **PRINTOUT 4**
>
> Make sure that you have entered your **name**, **Centre number** and **candidate number** on your Evidence Document.

[Total: 34]

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