Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CANDIDATE NAME	

CENTRE NUMBER		CANDIDATE NUMBER	

INFORMATION AND COMMUNICATION TECHNOLOGY **0417/03**

Paper 3 Data Analysis and Website Authoring **October/November 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 **163evidence.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 as **163evidence** followed by your candidate number. For example, 163evidence9999

You will need this to enter answers to questions and to place your screenshots.

Task 2 – Web Page

You work for Hothouse Design and have been asked by the Goan Tourist Board to help develop web pages to advertise tourism in Goa, India. The home page and three other pages have been started.

- Create a new folder called **163_html**

- Locate the following files and place them in your **163_html** folder.

  163beach.jpg

  163img1.jpg

  163img2.jpg

  163img3.jpg

  163img4.jpg

  163img5.jpg

  163img6.jpg

  163img7.jpg

  163img8.jpg

  163logo.jpg

  nov163food.htm

  nov163ges.htm

  nov163gtb.htm

  nov163river.htm

  nov163ss.css

  nov1630.jpg

  nov1631.jpg

  nov1632.jpg

  nov1633.jpg

  nov1634.jpg

1 • Open and examine all the supplied web pages.

   • Evaluate the efficiency of the markup for these pages and explain how improvements could be made. [4]

   > **EVIDENCE 1**
   >
   > Type your evaluation into your Evidence Document using no more than 100 words.

2 • Using a suitable software package, open the web page **nov163gtb.htm**

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

   • Replace the text *Image A* with the image **163beach.jpg** [1]

3 • Replace the text *Image B* with the image **163logo.jpg**

   • Resize this image to 1000 pixels high by 380 pixels wide.

   • Make sure that appropriate text is displayed if this image is not available. [3]

4 • Using the most appropriate image from **163img1.jpg** to **163img8.jpg**, replace the text:

   ○ *Image C* with the image of a chef preparing food

   ○ *Image D* with the image of an elephant ride

   ○ *Image E* with the image of a river boat. [3]

5 • Make the text *Click here* a hyperlink to return to the top of the page. [3]

6 • Make the text *Hothouse Design* a hyperlink to send an email message to: **hothouse-design@cie.org.uk** with a subject line **Web design enquiry** [5]

7 • Set the name for a default target window to **_self** [2]

8 • Make the image of the elephant ride a hyperlink to the web page for the Goa Elephant Sanctuary to open in a new window called **_blank**

   • Save the web page. [3]

   > **EVIDENCE 2**
   >
   > Display the web page in your browser. Take screenshot evidence of the web page in the browser and place this in your Evidence Document.

9 You would need to test the website at this point.

- Explain in your evidence document what you would test in this website before it is uploaded to the internet. [4]

> **EVIDENCE 3**
>
> Type your answer into your Evidence Document using no more than 100 words.

A trainee has attempted to create a stylesheet to organise tables and lists. This contains a number of errors and omissions. Make sure your stylesheet contains no html. All colour codes are in hexadecimal.

10 • Open and edit the stylesheet **nov163ss.css**

The specifications for this stylesheet are:

table	external border colour is FFFF66 internal border colour red FF, blue CC, green 66 visible solid lines external line width 4 pixels internal gridlines 2 pixels all collapsed cell padding 10 pixels cell spacing 10 pixels
table cells	cell padding 10 pixels cell spacing 10 pixels
unordered list	square bullet points

- Correct and complete the stylesheet in the most efficient way.
- Add your name, Centre number and candidate number as a comment to your stylesheet.
- Save this stylesheet in your 163_html folder. [11]

> **EVIDENCE 4**
>
> Take a screenshot showing the content of your stylesheet. Place this in your Evidence Document.

11 • Open the web page saved in step 8 in your editing software.

- Attach the stylesheet saved in step 10 after the in-line styles.
- Save the web page. [2]

> **EVIDENCE 5**
>
> 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 6**
>
> Take a copy of the HTML source and place this in your Evidence Document.

[Total: 41]

Task 3 – Spreadsheet

You are going to prepare a spreadsheet to calculate the advertising costs charged by Hothouse Design to each hotel in Goa. Use the most efficient formulae. Display all currency values in Indian rupees to 2 decimal places. For example, ₹12.00 or INR 12.00

1 rupee = 100 paise

12 • Using a suitable software package, load the file **163resort.csv**

   • Save this file as a spreadsheet with the file name **163_** and your Centre number and candidate number. For example, 163_ZZ999_9999

   • Place an automated file name which includes the file path, on the right in the header. [1]

13 • Insert 4 new rows before row 1. [1]

14 • In cell A1 enter the title:
   Hothouse Design costs for the Goan Tourist Board [1]

15 • Merge cells A1 to G1.

   • Format this cell to have a black background, with a white, 36 point, centre aligned, sans-serif font.

   • Make sure all the text is fully visible. [5]

16 • In cell F3 enter the text **Rate**

   • In cell F4 enter **124.2** rupees. [1]

17 • Make the contents of cells in the rows starting with *Resort* and *Number of rooms…* bold and underlined. [1]

18 • In cell D6 enter a function to look up from the external file **163taluka.csv** the *Taluka name* for this resort. [6]

19 • In cell E6 enter a function to look up from the external file **163taluka.csv** the *Location* for this resort. [4]

20 • In cell G6 enter a formula to calculate the advertising cost which is the rate (entered in step 16) multiplied by:

   ○ **25** if the *resort* has 50 or less rooms

   ○ **75** if the *resort* has more than 50 but less than 101 rooms

   ○ **150** if the *resort* has more than 100 but less than 201 rooms

   ○ **200** if the *resort* has more than 200 rooms. [8]

21 • In cell B27 enter a formula to add the number of rooms for the location in column A. [4]

22 • Replicate the formulae entered in steps 18, 19, and 20 for each resort.

• Replicate the formula entered in step 21 for each location. [1]

23 • Apply appropriate formatting to all cells. [1]

24 • Save and print the spreadsheet showing the formulae. Make sure:

o your name, Centre number and candidate number are entered in an appropriate place on your spreadsheet

o it is in landscape orientation

o the row and column headings are displayed

o the contents of all 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:

o it is in portrait orientation

o the printout fits on a single page

o the 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 • Change the data model so that the resort *Sun Village* has an extra 50 rooms added. [1]

27 • Save and print the spreadsheet showing the values. Make sure:

- ○ it is in portrait orientation
- ○ the printout fits on a single page
- ○ the contents of all cells are fully visible. [1]

> **PRINTOUT 3**
>
> 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 4**
>
> Make sure that you have entered your **name**, **Centre number** and **candidate number** on your Evidence Document.

[Total: 39]

8

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