



Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

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INFORMATION AND COMMUNICATION TECHNOLOGY

0417/32

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.

The 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 **1632evidence.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 **1632evidence** followed by your candidate number. For example, 1632evidence9999

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

Task 2 – Spreadsheet

You are going to prepare a spreadsheet for the Goa Elephant Sanctuary to manage employees' wages. 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 paisa

- Using a suitable software package, load the file **1632sheet.csv**
 - Save this file as a spreadsheet with the file name **1632_** and your Centre number and candidate number. For example, 1632_ZZ999_9999
 - Place an automated file name which includes the file path, on the left in the footer. [1]
- Insert 2 new rows between rows 12 and 13. [1]
- In cell A14 enter the title **Goa Elephant Sanctuary** [1]
- Merge cells A14 to H14.
 - Format this cell so that the text is centre aligned with a black, 24 point, serif font. [3]
- Make the contents of cells in rows 1, 2, 15 and 16 bold and italic. [1]
- In cell D17 enter a function to look up, from the external file **1632jobs.csv** the job description of the employee. [6]
- In cell E17 enter a function to:
 - look up from the *Pay grade table* the annual *Pay rate* for this employee
 - multiply this by the value in the *Works* column. [5]
- In cell G17 enter a formula to display:
 - **Full time** if the *Works* column contains 1
 - **Not started** if the *Works* column contains 0
 - **Part time** if not 0 or 1. [7]
- In cell H17 enter a formula to calculate the weekly wage in rupees, rounded down to the nearest paisa.
1 rupee = 100 paisa. 1 year = 52 weeks. [2]
- Replicate the formulae entered in steps 6, 7, 8 and 9 for each employee. [1]

- 11 • In cell H48 enter a function to add the total weekly wage bill. [1]
- 12 • Apply appropriate formatting to all cells. [1]
- 13 • Sort the weekly wage table into descending order of *Annual salary* then ascending order of *Job description*. [2]
- 14 • Save and print the spreadsheet showing the formulae. Make sure:
- your name, Centre number and candidate number are entered in an appropriate place on your spreadsheet
 - it is in landscape orientation
 - the row and column headings are displayed
 - 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.

- 15 • Print the spreadsheet showing the values. Make sure the:
- printout fits on a single page
 - 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.

- 16 • Change the data so that:
- Orrjit Dutta works **0.6** of a week
 - Rujul Rangan works **full time**
 - Pravar Subramanium works **0.8** of a week. [2]
- 17 • Save and print the spreadsheet showing the values. Make sure the:
- printout fits on a single page
 - 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.

[Total: 38]

Task 3 – Web Page

You are going to help develop a website for the Goa Elephant Sanctuary to raise awareness of the project. Viewers of the website may have slow internet connection, so efficient markup must be used.

- Create a new folder called **1632_html**
- Locate the following files and place them in your **1632_html** folder.

1632img1.jpg

1632img2.jpg

1632img3.jpg

1632img4.jpg

1632img5.jpg

1632img6.jpg

1632img7.jpg

1632img8.jpg

1632logo.jpg

- 18 •** Create a web page called **1632ges.htm**

This web page must work in all browsers and will have a table structure as shown below. Each table cell is identified with a letter and all dimensions are in pixels:

| | | | |
|--------------------|--------------------|--------------------|--------------------|
| A 736 × 172 | | | |
| B 184 × 140 | C 184 × 140 | D 184 × 140 | E 184 × 140 |
| F 184 × 140 | G 184 × 140 | H 184 × 140 | I 184 × 140 |
| J 736 × 140 | | | |

Table borders and the letters shown in the table must **not** appear on your final web page. [8]

- 19 •** Place in cell A the image **1632logo.jpg**
- Resize this image to 730 pixels wide, maintaining its aspect ratio. [2]

- 20 • Using the most appropriate image from **1632img1.jpg** to **1632img8.jpg**, place in cell:
- B the image of an elephant in a river
 - C the image of an elephant ride
 - D the image of a stream in the jungle
 - E the image of a garden. [2]
- 21 • Make sure that appropriate text is displayed for each image, if it is not available. [1]
- 22 • In cell:
- F enter the text **Elephant bath time**
 - G enter the text **Elephant rides**
 - H enter the text **Trek up a jungle stream**
 - I enter the text **Chill out in our tranquil gardens**
- Set all this text as style h1. [2]
- 23 • Place in cell J the text **Updated by:** followed by your name, Centre number and candidate number.
- Set this text as style h2. [2]
- 24 • Centre align the table in the browser.
- Save the web page. [1]
- 25 • Create a new cascading stylesheet to be used with the website. All colour codes must be in hexadecimal. Make sure your stylesheet contains no html.

The specifications for this stylesheet are:

| | |
|--|--|
| Background colour for web page: | Black |
| h1 and h2 Font: | Helvetica , but if not available then Arial , or if these fonts are not available, the browser's default sans-serif font |
| h1 Text colour: | White |
| | 30 pixels high |
| | Alignment centre |
| | Italic |
| h2 Text colour: | Blue 0, Red FF, Green FF |
| | 20 pixels high |
| | Alignment right |
| table No visible gridlines or borders | |

- Save this stylesheet in your 1632_html folder. Use the file name **styl** followed by your candidate number. For example, if your candidate number is 9999 then you will call the file styl9999.css [11]

EVIDENCE 1

Take a screenshot showing the content of your stylesheet. Place this in your Evidence Document. Make sure the file name is clearly visible.

- 26 • Attach the stylesheet saved in step 25 to the web page saved in step 24.
- Save the web page.

[1]

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.

EVIDENCE 3

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

[Total: 30]

Task 4 – Trainee Notes

You are going to produce some notes for an audience of trainees learning to develop web pages for the Goa Elephant Sanctuary.

- 27** • Examine the file **1632training.rtf** and open it in an appropriate software package.
- Make sure that your name, Centre number and candidate number are placed within these notes.
 - Replace the text <Answer 1 here> with suitable methods of reducing the dimensions of an image for use in a web page. [2]
- 28** • Replace the text <Evaluation here> with an evaluation of each of these methods for use in the development of the Goa Elephant Sanctuary’s website. Include in your evaluation which is the most appropriate method. [4]
- 29** • Replace the text <Answer 2 here> with the number of bits per channel in a JPEG image.
- Replace the text <Answer 3 here> with the most appropriate file format for still and moving images that the Goa Elephant Sanctuary should use within its website. [2]
- 30** • Replace the text <Layer> with the name of the layer that completes each sentence.
- Save and print your notes for the trainees. [4]

PRINTOUT 4

Make sure that you have entered your **name**, **Centre number** and **candidate number** on your notes for the trainees.

- Print your Evidence Document.

PRINTOUT 5

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

[Total: 12]

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