



Cambridge Assessment International Education
Cambridge International General Certificate of Secondary Education

CANDIDATE
NAME

CENTRE
NUMBER

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CANDIDATE
NUMBER

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INFORMATION AND COMMUNICATION TECHNOLOGY

0417/32

Paper 3 Data Analysis and Website Authoring

May/June 2019

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.

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

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.

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.

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 **J1932Evidence.rtf**
- Enter your name, centre number and candidate number so they will appear on every page of this document.
- Save this as a word processed document in your work area with the file name **J1932Evidence** followed by your candidate number, for example, J1932Evidence9999

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

- 1 • Part of a web page is designed to look like this:

1. Cloud storage
 - 10GB free for the first 6 months
 - Best rates for a single region
 - Premium service for multi-regional
2. Hard disk drives
3. Solid state drives

- A trainee has attempted to create this using HTML:

```
<td>
  <li> Cloud storage</li>
    <li> 10GB free for the first 6 months</li>
    <li> Best rates for a single region</li>
    <li> Premium service for multi-regional</li>
  <li> Hard disk drives</li>
  <li> Solid state drives</li>
</td>
```

- Analyse this HTML and suggest amendments. Identify where each of these amendments should be placed. Do **not** include CSS. [5]

EVIDENCE 1

Place your answer in your Evidence Document.

- 2 • Complete each sentence with the name of the web development layer.
- Place your answers in your Evidence Document.
 - (a) The _____ layer is used by scripting languages.
 - (b) The _____ layer is used for a hyperlink to open a word processed document.
 - (c) The _____ layer is used for the markup language.
 - (d) The _____ layer is used to apply styles to all web pages in a website.
- [4]

EVIDENCE 2

Place your answers in your Evidence Document.

[Total: 9]

Task 2 – Web Page

You are going to create a web page and edit a stylesheet for Super-Disk-Sales. Many of the people who will view the web page have very slow internet connection. The web page and stylesheet must work in any browser. All colour codes must be in hexadecimal. Make sure that your stylesheet contains no HTML.

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

SDSdisks.jpg

SSD.txt

SSDstyle.css

- 3 • Open the file **SDSdisks.jpg** in a suitable application. Reflect the image horizontally. Save this image as **disk1.jpg** in your *SDS_html* folder.
- Rotate the image *disk1.jpg* 90 degrees clockwise. Save this image as **disk2.jpg** in your *SDS_html* folder.
 - Crop the image *disk2.jpg* so that all the solid state drive is visible with an equal amount of red background on each side. This image must be square. Do **not** distort the image. The hard disk drive must **not** be visible.
 - Save this image as **disk3.jpg** in your *SDS_html* folder.
 - Resize the image *disk3.jpg* to become 600 × 600 pixels. Save this image as **disk4.jpg** in your *SDS_html* folder.

[4]

- 4 • Display the contents of your *SDS_html* folder showing the folder name, image dimensions, all file names, file extensions and file sizes. [1]

EVIDENCE 3

Take a screenshot of your *SDS_html* folder and place this in your Evidence Document. Make sure that the folder name, image dimensions, all file names, file extensions and file sizes are clearly visible.

- 5 • Create a web page called **solid_state_drive.htm**

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

A 1400 × 80		
B 800 × 600		C 600 × 600
D 400 × 80	E 400 × 80	F 600 × 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.
- Table borders and gridlines **must** appear on the final web page.

[11]

- 6 • Enter in cell A the text:
SSDs from Super-Disk-Sales

- Set this text as style h1.

[2]

- 7 • Place in cell B text from the file **SSD.txt**

- Set this text as style h2 ensuring that the original paragraph breaks are not lost.

[3]

- 8 • Place in cell C the image **disk4.jpg**

- Add appropriate alternate text to this image.

[2]

- 9 • Enter in cell D the text:
Homepage
- Set this text as style h3.
- [1]
- 10 • Enter in cell E the text:
Contact us
- Set this text as style h3.
 - Make this text a hyperlink to open an email editor ready to send a message to **SDS@cambridgeinternational.org** with a subject line **SSD enquiry**
- [6]
- 11 • Enter in cell F the text:
- Web page edited by:**
followed by your name, centre number and candidate number
- Set this text as style h3.
- [1]
- 12 • Attach the stylesheet **SSDstyle.css** to this web page.
- Save your web page.
- [1]
- 13 • Open the stylesheet *SSDstyle.css* in a suitable software package. Edit this stylesheet to meet these specifications:

h1, h2, h3	font set to Arial or if this is not available Helvetica or if neither of these fonts are available then display the default sans-serif font
	font colour set to the hexadecimal number 361215
	centre aligned text
h1	30 points high
h2	14 points high
h3	20 points high
all table cells	padding set to 15 pixels no collapsed borders
background colour	blue component set to the hexadecimal number 99 and ff for both the red and green components

- Add your name, centre number and candidate number as a comment at the bottom of the stylesheet.
- Save this stylesheet in your *SDS_html* folder.
- Display your CSS stylesheet in your software package.

EVIDENCE 4

Take a screenshot showing the content of your stylesheet and place this in your Evidence Document. Make sure that all contents and the file name are clearly visible.

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

EVIDENCE 5

Take a single screenshot of the browser window and place this in your Evidence Document.

- Display the HTML source in your editor.

EVIDENCE 6

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

[9]

[Total: 41]

- Save and print your Evidence Document.

PRINTOUT 1

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

Task 3 – Spreadsheet

You are going to prepare a spreadsheet for Super-Disk-Sales. This company makes and sells storage devices. The company will use a spreadsheet to compare some of the Solid State Drives that they sell. All prices are in Euros which must be displayed with 2 decimal places.

- 14 • Open and examine the files **SSDmanufacturer.csv** and **SSD.csv** in a spreadsheet package.
- In the file *SSD.csv* spreadsheet insert 2 new rows at the top.
 - Enter in cell A1 the text:
SDS – SSD price per gigabyte
 - Merge cells A1 to G1
 - Format the merged cell A1 to have a white, 30 point, serif font on a red background.
 - Format the text in row 3 to be a red, 18 point, sans-serif font.
 - Format the top of the spreadsheet to look like this:

	A	B	C	D	E	F	G
1	SDS – SSD price per gigabyte						
3	SCode	Mcode	Manufacturer	Model	Capacity in GB	Price	Price per GB
4	SSD101	A		Premier Pro SP900	128	60	
5	SSD1	S		850 Evo	250	84	
6	SSD10	F		Extreme Pro	240	116	
7	SSD100	I		320 Series	120	194	
8	SSD102	O		Vertex 3	120	86	

- Save this spreadsheet with the filename **SDS_SSD_** and your centre number and candidate number, e.g. SDS_SSD_ZZ999_9999 [9]
- 15 • Place your name, centre number and candidate number, centre aligned in the header.
- Place the text:
Created on: followed by an automated date, then a space and then the automated time, left aligned in the footer. [2]
- 16 • In cell C4 use a function to look up the manufacturer's name. Use the *Mcode* column for the lookup value and the external file *SSDmanufacturer.csv* for the array. [5]
- 17 • In cell G4 use a formula to calculate the price per gigabyte for this drive.
- Round this value down to 2 decimal places. [5]
- 18 • Replicate the functions used in steps 16 and 17 for each drive. [1]

- 19 • Apply appropriate formatting to rows 4 to 108 of the spreadsheet. [1]
- 20 • Save your spreadsheet.
- Print the entire spreadsheet showing the formulae. Make sure:
 - it is in landscape orientation
 - the row and column headings are displayed
 - the contents of all cells are fully visible.

[2]

PRINTOUT 2

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

- 21 • Print the entire spreadsheet showing the values. Make sure the:
 - printout fits on a single page wide and is two pages tall
 - contents of all cells are fully visible with no split words.

[1]

PRINTOUT 3

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

- 22 • Extract only the drives made by Samsung or OZT that cost under 200 Euros with more than 240GB of storage capacity. [3]
- 23 • Sort the extract into ascending order of manufacturer then ascending order of price. [1]
- Print the extract showing the values. Make sure:
 - the printout fits on a single page
 - the contents of all required cells are fully visible.

PRINTOUT 4

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

[Total: 30]

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