## MARK SCHEME for the March 2016 series

## 0417 INFORMATION AND COMMUNICATION TECHNOLOGY

0417/31
Paper 3 (Practical Test B), maximum raw mark 80

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.
Cambridge is publishing the mark schemes for the March 2016 series for most Cambridge IGCSE ${ }^{\circledR}$ and Cambridge International A and AS Level components.

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| 4 | Using the most appropriate image from m16img1.jpg to m16img8.jpg place in cell: <br> - C the image of a plot of land for sale <br> - D the image of a builder making a wall <br> - G the image of a beach front café <br> - H the image of a Portuguese style house <br> 4 correct insertions of image <br> 2 marks <br> 3 correct insertions of image <br> 1 mark <br> 0,1 or 2 correct insertions of image <br> 0 marks | [2] |
| :---: | :---: | :---: |
| 5 | Make sure appropriate text is displayed, if an image is not available. <br> Appropriate text set for alt text attribute for all 5 images | [1] |
| 6 | In cell: <br> - E enter the text Prime location building plots for sale <br> - F enter the text Local construction workers <br> - I enter the text Arossim beach front café for sale <br> - J enter the text Portuguese colonial style house for sale <br> Set all this text as style h2. <br> All 4 elements of text $100 \%$ correct <br> All text set into style h2 | [2] |
| 7 | In cell K enter the text: Web Design by Hothouse Design: Page last edited by: followed by your name, Centre number and candidate number. <br> Set this text as style h3. <br> Text 100\% correct plus candidate details <br> 1 mark <br> Text set into style h3 | [2] |
| 8 | Centre align the table in the browser. <br> Save the web page. <br> Table centre aligned within browser window | [1] |
| 9 | Make the text Hothouse Design a hyperlink to send an email message to hothouse-design@cie.org.uk with a subject line Make me a website! <br> Anchor from text Hothouse-Design <br> 1 mark <br> Href="mailto: <br> 1 mark <br> hothouse-design@cie.org.uk <br> 1 mark <br> ?subject= <br> Make me a website!" | [5] |
| 10 | Attach the stylesheet m 16 ss.css to the web page. <br> Save the webpage. <br> Stylesheet m16ss.css attached to webpage | [1] |


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| 11 | The stylesheet has been created but needs to be improved using the most efficient syntax. Make sure your stylesheet contains no html. <br> Open and examine the stylesheet $\mathbf{m 1 6 s s}$.css in a suitable software package. <br> Add the following to this stylesheet: <br> Add your name, Centre number and candidate number as a comment to your stylesheet. <br> Save this stylesheet in your m16_html folder. <br> h1, h2 and h3 <br> Trebuchet <br> ,"Trebuchet MS" <br> ,sans-serif <br> h3 <br> \{font-size:24pt\} <br> table and td <br> \{border:0\} <br> Use of table,td and h1,h2,h3 for efficient syntax for border-style <br> Comment added with /* name */ | [7] |
| :---: | :---: | :---: |
| 12 | A website is tested before it is uploaded to the Internet. Describe how you would develop a test plan to test the hyperlinks, as part of a test strategy. <br> Identify each element to be tested <br> 1 mark <br> For each test identify Expected output <br> 1 mark <br> Test plan contains Actual output <br> Test plan contains remedial action <br> 1 mark | [4] |
| 13 | Evaluate the webpage you have just created. <br> Bright colours within the page attract attention Magenta mask on background image makes reading text difficult Text under image/Alt text identifies the image Colour schemes do not look like professional company site Logo does not blend with background/has poor contrast between background and text Image of beach front café is taken from too far away <br> mark | [4] |


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| 14 | Create and format a spreadsheet that looks like this: <br> Save this spreadsheet with the file name m16_ and your Centre number and candidate number, e.g. m16_ZZ999_9999 <br> Place an automated filename which includes the file path, on the left in the header. <br> Row 1 <br> A1 to E1 merged <br> Sans-serif centre aligned font <br> White text, largest font <br> Black background <br> Row 2 <br> Row height less than half row 3 <br> 1 mark <br> Row 3 <br> Sans-serif left aligned font <br> 1 mark <br> Black, italic text <br> Light grey background <br> Sheet <br> All column widths fully visible <br> Row and column headings visible (this and next printout) <br> 1 mark <br> 1 mark <br> Automated filename with file path placed on left in header <br> 1 mark | [11] |
| :---: | :---: | :---: |
| 15 | Insert 2 new columns between columns C and D. <br> Columns inserted as specified | [1] |
| 16 | Edit the spreadsheet so it looks like this: <br> Row 3 <br> Alignment changed from left to centre <br> 1 mark <br> Column widths narrowed <br> 1 mark <br> Text wrapped, $100 \%$ accurate, fully visible | [3] |
| 17 | In cell E5 enter a formula to calculate the price per square metre which is the price divided by the area. Use a function to round this value to 0 decimal places. <br> =ROUND() <br> 1 mark <br> C5/D5 <br> 1 mark <br> ,0 <br> 1 mark | [3] |


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Question 11 - Evidence 1

```
- m16ss.css - Notepad
File Edit Format Yiew Help
body {background-image:url('m16bg.jpg');
    background-color:#7c7d76}
h1 {font-weight:bold;
    font-size:42px;
    text-align: center}
h2 {font-size:30px;
    text-align:center;
        text-wrap:normal;
        word-wrap:break-word;}
h3 {font-size:24pt}
h1,h2,h3 {font-family:Trebuchet,"Trebuchet MS", sans-serif}
table,td {border:0}
/* A Candidate, X0K999 9999 */
```


## Question 12 - Evidence 2

Identify each hyperlink to be tested For each test identify Expected output
Test plan contains Actual output
Test plan contains remedial action/retest

1 mark
1 mark
1 mark
1 mark

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Question 12 - Evidence 3


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## Question 12 - Evidence 4

```
<!DOCTYPE html>
<html>
    <head>
    <link rel="stylesheet" type="text/css" href="m16ss.css">
    <title>Cansaulim Properties
    </head>
    <body>
Stylesheet m16ss.css attached

\section*{<html>}
```

<head>
<link rel="stylesheet" type="text/css" href="m16ss.css">
<title>Cansaulim Properties
</head>
<body>
<table style="margin-left:auto;
margin-right:auto;width:900px;">

```

``` lt="Cansaulim Pronen alt="Cansaulim Properties logo" </td>
<td colspan=2
\begin{tabular}{|cc|}
\hline Left cell & rowspan=5 \\
\hline\(<\) h1 \(>\) We design, create, build, furnish, sell or \\
\hline
\end{tabular}
rent</h1>
\(</ t d>\)
Top right colspan=2
</tr>
<tr style="height:300px; Rows 2 and 4 height:300px 1
<td style="width:300px;">
<img src="m16img1.jpg" arimade of a plot of building
land for sale">
\[
</ t d>
\]
<td> \(\quad 3\) equal ( 300 pixels or \(33 \%\) ) cell widths
<td style="width:300px;">
<img src="m16img6.jpg" alt="image of a builder making a
wall">
```

</td>
</tr>

<tr style="height:100px;">
<td>
<h2>Prime location building plots for sale</h2>
</td>
<td>
<h2>Local construction workers</h2>
</td>
\(</\) tr \(>\)
<tr style="height:300px;">
<td>
<img src="m16img7.jpg" alt="image of a beach front cafe"> </td>
<td>
<img src="m16img4.jpg" alt="image of a Portuguese house">
\(</ t d>\)
</tr>
<tr style="height:100px;
Alt attribute appropriate alt text for all 5 images 1
<td>
\(<h 2>A r o s s i m\) beach front café for sale</h2>
</td>
<td>
<h2>Portuguese style colonial house for sale</h2>
</td>
</tr>
 4 from:

Bright colours within the page attract attention
Magenta mask on background image makes reading text difficult
Text under image/Alt text identifies the image
Colour schemes do not look like professional company site Logo does not blend with background/has poor contrast between background and text Image of beach front café is taken from too far away

Max 4 marks



Both screen shots Row and column headings visible 1



## Cansaulim Properties

| $\begin{gathered} \text { Property } \\ \text { ID } \end{gathered}$ | Location | Price | Area ${ }^{\text {Pr }}$ | Price per square metre | Distance in km | Travel cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CP1007 | Dona Paula, Panjim | ₹ 22,000,000.00 | 171 | ₹ 128,655,00 | 28.1 | ₹ 53.00 |
| Format Printout | Columns C,E,G only in rupees to 2dp single page and fully visible |  |  | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ |  |  |

