

CAMBRIDGE INTERNATIONAL EXAMINATIONS**Cambridge International General Certificate of Secondary Education****MARK SCHEME for the March 2016 series****0417 INFORMATION AND COMMUNICATION
TECHNOLOGY****0417/31**

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

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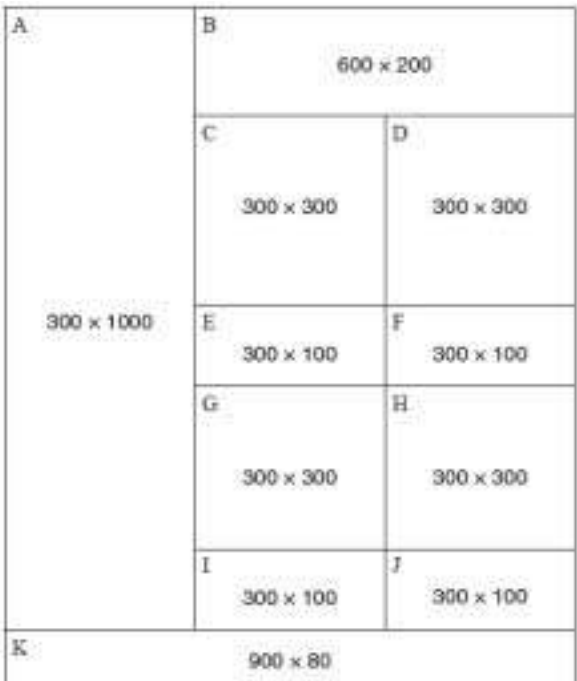
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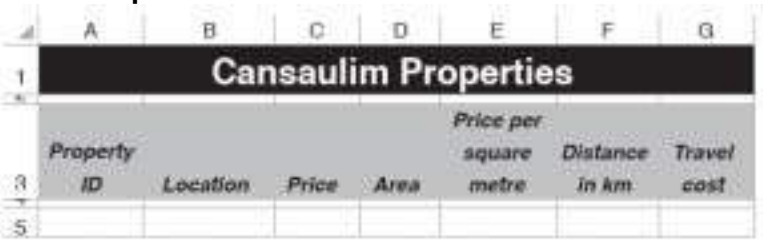
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1	Create a webpage called m16cp.htm This webpage must work in all browsers and will have a table structure as shown below:  Each table cell is identified with a letter and all dimensions are in pixels. The letters shown in the table must not appear on your final webpage. Table borders must not appear on the final webpage. Displayed in the browser with no letters from QP visible 1 mark Table borders not visible 1 mark Table width (or td width last row) set to 900px 1 mark Left cell rowspan set to 5 1 mark Top right cell colspan set to 2 1 mark Top right cell 200 high 1 mark Rows 2 and 4 set to 300 high 1 mark Rows 3 and 5 set to 100 high 1 mark Row 6 colspan set to 3 1 mark Row 6 set to 80 high 1 mark 3 equal (300 pixels or 33%) cell widths 1 mark	[11]
2	Place in cell A the image m16logo.jpg Cansaulim Properties logo placed in top row 1 mark	[1]
3	Enter in cell B the text We design, create, build, furnish, sell or rent Set this text as style h1 Text 100% correct 1 mark Text set into style h1 1 mark	[2]

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

Page 4	Mark Scheme	Syllabus	Paper							
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11	<i>The stylesheet has been created but needs to be improved using the most efficient syntax. Make sure your stylesheet contains no html.</i> Open and examine the stylesheet m16ss.css in a suitable software package. Add the following to this stylesheet: <table><tr><td>h1, h2 and h3</td><td>Trebuchet</td></tr><tr><td></td><td>if this is not available then Trebuchet MS</td></tr><tr><td></td><td>if neither of these fonts are available, the browser's default sans-serif font.</td></tr><tr><td>h3</td><td>a 24 point font.</td></tr></table> Add your name, Centre number and candidate number as a comment to your stylesheet. Save this stylesheet in your m16_html folder. h1, h2 and h3 Trebuchet 1 mark ,"Trebuchet MS" 1 mark ,sans-serif 1 mark h3 {font-size:24pt} 1 mark table and td {border:0} 1 mark Use of table,td and h1,h2,h3 for efficient syntax for border-style 1 mark Comment added with /* name */ 1 mark	h1, h2 and h3	Trebuchet		if this is not available then Trebuchet MS		if neither of these fonts are available, the browser's default sans-serif font.	h3	a 24 point font.	[7]
h1, h2 and h3	Trebuchet									
	if this is not available then Trebuchet MS									
	if neither of these fonts are available, the browser's default sans-serif font.									
h3	a 24 point font.									
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. Identify each element to be tested 1 mark For each test identify Expected output 1 mark Test plan contains Actual output 1 mark Test plan contains remedial action 1 mark	[4]								
13	Evaluate the webpage you have just created. Bright colours within the page attract attention 1 mark Magenta mask on background image makes reading text difficult 1 mark Text under image/Alt text identifies the image 1 mark Colour schemes do not look like professional company site 1 mark Logo does not blend with background/has poor contrast between background and text 1 mark Image of beach front café is taken from too far away 1 mark (Max 4 marks)	[4]								

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

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18	In cell G5 enter a formula to calculate the travel cost to this property. This is 10 rupees plus: 7.5 if the distance is less than 6 - The distance multiplied by 1.5 if the distance is not less than 6 Round the travel cost up to the next whole rupee. =ROUNDUP() 10+ IF() F5<6 ,7.5 ,F5*1.5 ,0	1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark	[7]										
19	Complete the unfinished Test Plan in your Evidence Document: - Replace the letters A and B with suitable headings - Choose 3 pieces of test data to test the formula used in step 18 - Complete the test table as you carry out the tests - Take screenshots from your tests and place these in the Test Plan. Make sure that the test data and results are clearly visible. Cell reference and formula tested correct Headings Expected and Actual Outcome Test data selected 6, one above and one below Test data chosen is easy to calculate manually Reasons for choice of test data appropriate Expected output calculated correctly Screen shots of actual output shown	1 mark 1 mark 1 mark 1 mark 1 mark 3 marks 1 marks	[9]										
20	Apply appropriate formatting to row 5 of the spreadsheet Columns C, E and G only formatted to 2dp in rupees	1 mark	[1]										
21	Save and print the spreadsheet showing the formulae. Make sure: - it fits on a single landscape page - the contents of all cells are fully visible. Single landscape page and contents of all cells fully visible	1 mark	[1]										
22	Add the following property to your spreadsheet: <table><tr><th>Property ID</th><th>Location</th><th>Price</th><th>Area</th><th>Distance in km</th></tr><tr><td>CP1007</td><td>Dona Paula, Panjim</td><td>22000000</td><td>171</td><td>28.1</td></tr></table> Print the spreadsheet showing the values. Make sure: - the printout fits on a single page - the contents of all cells are fully visible. Printout fits on single page and contents of all cells are fully visible	Property ID	Location	Price	Area	Distance in km	CP1007	Dona Paula, Panjim	22000000	171	28.1	1 mark	[1]
Property ID	Location	Price	Area	Distance in km									
CP1007	Dona Paula, Panjim	22000000	171	28.1									

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Question 11 – Evidence 1

m16ss.css - Notepad

File Edit Format View 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, XX999 9999 */

h1,h2,h3	Trebuchet	1
	, "Trebuchet MS"	1
	, sans-serif	1
h3	font-size:24pt	1
table,td	{border:0}	1
Use of table,td and h1,h2,h3 for efficient syntax for border-style		1
Correct comment added with /* format */		1

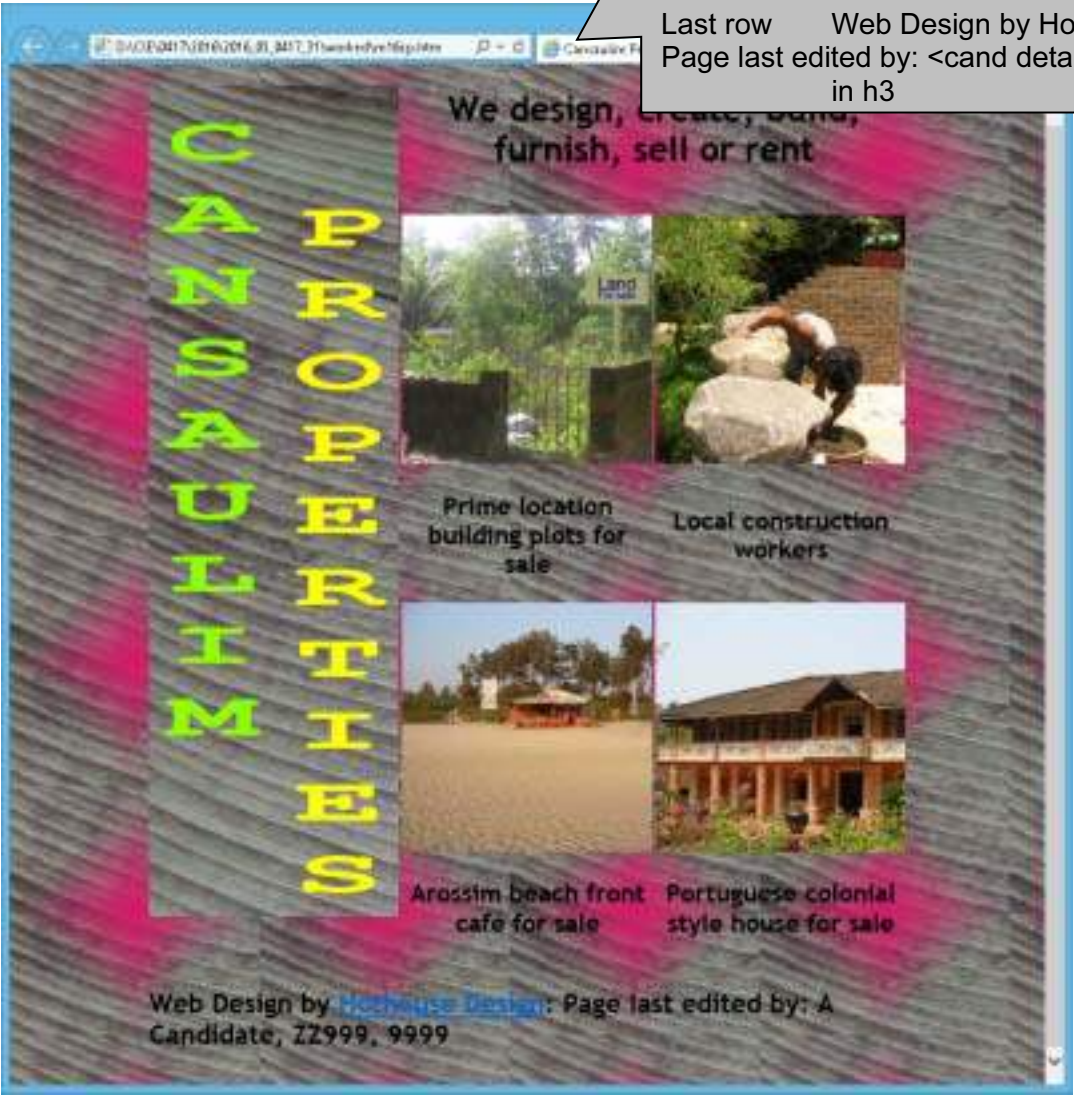
Question 12 – Evidence 2

Identify each hyperlink to be tested	1 mark
For each test identify Expected output	1 mark
Test plan contains Actual output	1 mark
Test plan contains remedial action/retest	1 mark

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Question 12 – Evidence 3

Browser view		
In browser with no letters vis		1
Table	borders not visible	1
Left cell	Cansaulim Properties logo	1
Top row	Text 100% correct	1
	in h1	1
	Images as shown	
	4 correct for 2 marks, 3 for 1	
	All 4 elements of text 100% correct	1
	in h2	1
Last row	Web Design by Hothouse Design:	
Page last edited by: <can details>		1
	in h3	1



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Question 12 – Evidence 4

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<link rel="stylesheet" type="text/css" href="m16ss.css">
```

```
<title>Cansaulim Properties </title>
```

```
</head>
```

```
<body>
```

```
<table style="margin-left:auto; margin-right:auto; width:900px;">
```

```
<tr style="height:200px;">
```

```
<td rowspan=5 style="width:300px;">
```

```
</td>
```

```
<td colspan=2 ><h1>We design, create, build, furnish, sell or
```

```
rent</h1>
```

```
</td>
```

```
</tr>
```

```
<tr style="height:300px;">
```

```
<td style="width:300px;">
```

```

```

```
</td>
```

```
<td style="width:300px;">
```

```

```

```
</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>
```

```

```

```
</td>
```

```
<td>
```

```

```

```
</td>
```

```
</tr>
```

```
<tr style="height:100px;">
```

```
<td>
```

```
<h2>Arossim beach front café for sale</h2>
```

```
</td>
```

```
<td>
```

```
<h2>Portuguese style colonial house for sale</h2>
```

```
</td>
```

```
</tr>
```

Stylesheet m16ss.css attached

1

Table centre aligned in the window
Width:900px

1

1

Top row height:200px

1

Left cell rowspan=5

1

Top right colspan=2

1

Rows 2 and 4 height:300px

1

<td> 3 equal (300 pixels or 33%) cell widths

Rows 3 and 5 height:100px

1

Alt attribute appropriate alt text for all 5 images

1

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Row 6 height:80px
colspan=3 1
1

```

<tr style="height:80px;">
  <td colspan=3><h3>Web Design by <a href="mailto:hothouse-
design@cie.org.uk?subject=Make%20me%20a%20website!">Hothouse Design</a>:
Page last edited by: A Candidate, ZZ999, 9999</h3></td>
</tr>
</table>
</body>
</html>

```

Hyperlink	From Hothouse Design only	1
	href="mailto:	1
	hothouse-design@cie.org.uk	1
	?subject=	1
	Make me a website!"	1

Question 13 – Evidence 5

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

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Question 14 – Evidence 6

	A	B	C
1	Cansaulim P		
3	<i>Property ID</i>	<i>Location</i>	<i>Price</i>
4		<i>Distance in km</i>	<i>Travel cost</i>

Row 1	A1 to E1 merged	1
	Sans-serif centre aligned font	1
	White text, largest font	1
	Black background	1
Row 2	Row height less than half row 3	1
Row 3	Sans-serif left aligned font	1
	Black, italic text	1
	Light grey background	1
Sheet	All column widths fully visible	1

Question 16 – Evidence 7

	A	B	C	D	E	F	G
1	Cansaulim Properties						
				<i>Price per</i>			
	<i>Property</i>			<i>square</i>	<i>Distance</i>	<i>Travel</i>	
3	<i>ID</i>	<i>Location</i>	<i>Price</i>	<i>Area</i>	<i>in km</i>	<i>cost</i>	
4							
5							

Columns	2 new columns inserted after C	1
Row 3	Alignment changed from left to centre	1
	Column widths narrowed	1
	Text wrapped, 100% accurate fully visible	1

Both screen shots Row and column headings visible 1

Question 19 – Test Plan

Cell reference & formula tested correct	1
Headings Expected and Actual Outcome	1

Cell reference	G5								
Formula tested	=ROUNDUP(10+IF(F5<6,7.5,IF(F5<1.5),0))								
Test data	Why chosen	Expected outcome	Actual Outcome	Tested formula works Y/N	Remedial action				
5	Value below 6	18	<table><tr><th>Distance in km</th><th>Travel cost</th></tr><tr><td>5</td><td>₹ 18.00</td></tr></table>	Distance in km	Travel cost	5	₹ 18.00	Y	n/a
Distance in km	Travel cost								
5	₹ 18.00								
6	Value of test =6	19	<table><tr><th>Distance in km</th><th>Travel cost</th></tr><tr><td>6</td><td>₹ 19.00</td></tr></table>	Distance in km	Travel cost	6	₹ 19.00	Y	n/a
Distance in km	Travel cost								
6	₹ 19.00								
10	Value above 6 & easy to calculate	25	<table><tr><th>Distance in km</th><th>Travel cost</th></tr><tr><td></td><td>₹ 25.00</td></tr></table>	Distance in km	Travel cost		₹ 25.00	Y	n/a
Distance in km	Travel cost								
	₹ 25.00								

Test data	selected 6, above and below	1
Test data	easy to calculate manually	1
Reasons	for choice of test data appropriate	1
Calcs correct	Expected output	3
Screen shots of actual output shown		1

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Header Auto filename and path on left 1

Cansaulim Properties						
<i>Property ID</i>	<i>Location</i>	<i>Price</i>	<i>Area</i>	<i>Price per square metre</i>	<i>Distance in km</i>	<i>Travel cost</i>
CP1007	Dona Paula, Panjim	22000000	171	=ROUND(C5/D5,0)	28.1	=ROUNDUP(10+IF(F5<6,7.5,F5*1.5),0)

Price per square metre

=ROUND()
C5/D5
,0

1

1

1

Printout single landscape page and formulae
fully visible

1

Travel cost

=ROUNDUP()
10+
IF()
F5<6
,7.5
,F5*1.5
,0

1

1

1

1

1

1

1

Cansaulim Properties

<i>Property ID</i>	<i>Location</i>	<i>Price</i>	<i>Area</i>	<i>Price per square metre</i>	<i>Distance in km</i>	<i>Travel cost</i>
CP1007	Dona Paula, Panjim	₹ 22,000,000.00	171	₹ 128,655.00	28.1	₹ 53.00

Format Columns C,E,G only in rupees to 2dp 1
Printout single page and fully visible 1