CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the March 2016 series

0417 INFORMATION AND COMMUNICATION TECHNOLOGY

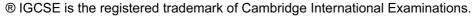
0417/31 Paper 3 (Practical Test B), maximum raw mark 80

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® and Cambridge International A and AS Level components.





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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: A 600 × 200 300×300 300×300 300 × 1000 300 × 100 300 x 100 300 x 300 300×300 300 x 100 300 x 100 K 900 x 80 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 1 mark Text set into style h1 [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]
	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 all 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	[0]
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.	
	det tills text as style lis.	
	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	ζ
	?subject= 1 mark	
	Make me a website!" 1 mark	[5]
10	Attach the stylesheet m16ss.css to the web page.	
		1
	Save the webpage.	

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11	_	et has been created but needs to be improved us ax. Make sure your stylesheet contains no html.	sing the most	
	Open and exa	mine the stylesheet m16ss.css in a suitable soft	tware package.	
	Add the follow	ving to this stylesheet:		
	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.		
	your styleshe	ne, Centre number and candidate number as a co et. esheet in your m16_html folder.	omment to	
	h1, h2 and h3 Trebuchet "Trebuchet M3		1 mark 1 mark	
	, rrebuchet w. ,sans-serif h3	•	1 mark	
	{font-size:24pt	}	1 mark	
	{border:0}		1 mark	
		and h1,h2,h3 for efficient syntax for border-style ed with /* name */	1 mark 1 mark	[7]
12		ested before it is uploaded to the Internet. Desci p a test plan to test the hyperlinks, as part of a to	_	
	_	lement to be tested	1 mark	
		dentify Expected output ains Actual output	1 mark 1 mark	
	-	ains remedial action	1 mark	[4]
13	Evaluate the	webpage you have just created.		
	Magenta mask	within the page attract attention on background image makes reading text difficult	1 mark 1 mark	
	Colour scheme	age/Alt text identifies the image es do not look like professional company site blend with background/has poor contrast between	1 mark 1 mark	
	background ar	nd text	1 mark	
	Image of beac	h 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:		
14	A A B C D E		
	Cansaulim Properties		
	3 Property ID Location Price Distance in km Travel cost Save this spreadsheet with the file name m16_ and your Centre r	number and	
	candidate number, e.g. m16_ZZ999_9999		
	Place an automated filename which includes the file path, on the header.	left in the	
	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 Row and column headings visible (this and next printout)	1 mark 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.		
		1	[4]
	Columns inserted as specified	1 mark	[1]
16	Edit the spreadsheet so it looks like this:		
	A B C D E F G		
	Cansaulim Properties		
	Price per Property square Distance Travel		
	3 ID Location Price Area metre in km cost		
	5		
	Row 3	4	
	Alignment changed from left to centre Column widths narrowed	1 mark 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		
	places.		
	=ROUND()	1 mark	
	C5/D5	1 mark	
1	,0	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 trav	el cost up to the next	whole rupe	e.		
	=ROUNDUP() 10+ IF() F5<6 ,7.5 ,F5*1.5				1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark	[7]
19	○ Replace○ Choose○ Comp○ Take seems	Infinished Test Plan ince the letters A and B se 3 pieces of test data lete the test table as y screenshots from you the test data and resu	with suitable to test the ou carry our tests and p	le headi formula it the tes place the	ngs a used in step 18 sts ese in the Test Plan.	
	Headings Expective Test data select Test data chose Reasons for choose Expected output	nd formula tested corrected and Actual Outcomed 6, one above and oren is easy to calculate moice of test data approper calculated correctly actual output shown	ie ne below nanually		1 mark 1 mark 1 mark 1 mark 1 marks 1 marks	[9]
20		ate formatting to row	•		e t 1 mark	[1]
21	Save and print it fits o the cor	the spreadsheet show on a single landscape ntents of all cells are f	ving the for page ully visible.	mulae. N		[1]
22		ing property to your s			i illaik	[']
22	Add the follow		preausileet	•		
	Property ID	Location	Price	Area	Distance in km	
	the pri	Dona Paula, Panjim dsheet showing the vantout fits on a single partents of all cells are f	age		28.1	
	Printout fits on s	single page and content	s of all cells	are fully	visible 1 mark	[1]

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Question 11 - Evidence 1

```
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
```

```
m16ss.css - Notepad
File Edit Format View Help
             {background-image:url('m16bg.jpg');
body
              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}
             {font-family:Trebuchet, "Trebuchet MS", sans-serif}
h1,h2,h3
table,td {border:0}
/* A Candidate, XX999 9999 */
```

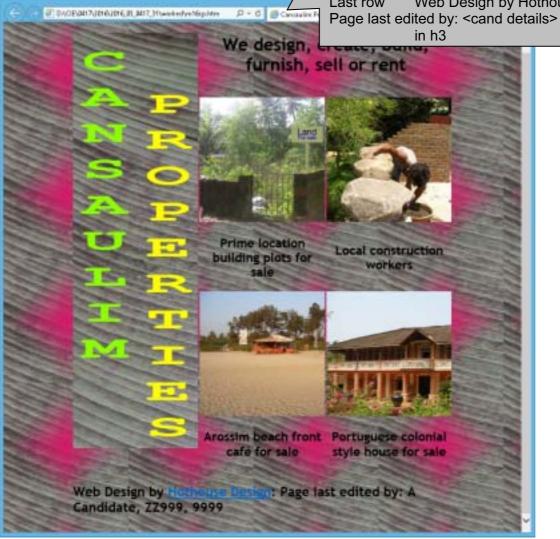
Question 12 - Evidence 2

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 Text 100% correct Top row in h1 Images as shown 4 correct for 2 marks, 3 for 1 All 4 elements of text 100% correct1 in h2 Last row Web Design by Hothouse Design:



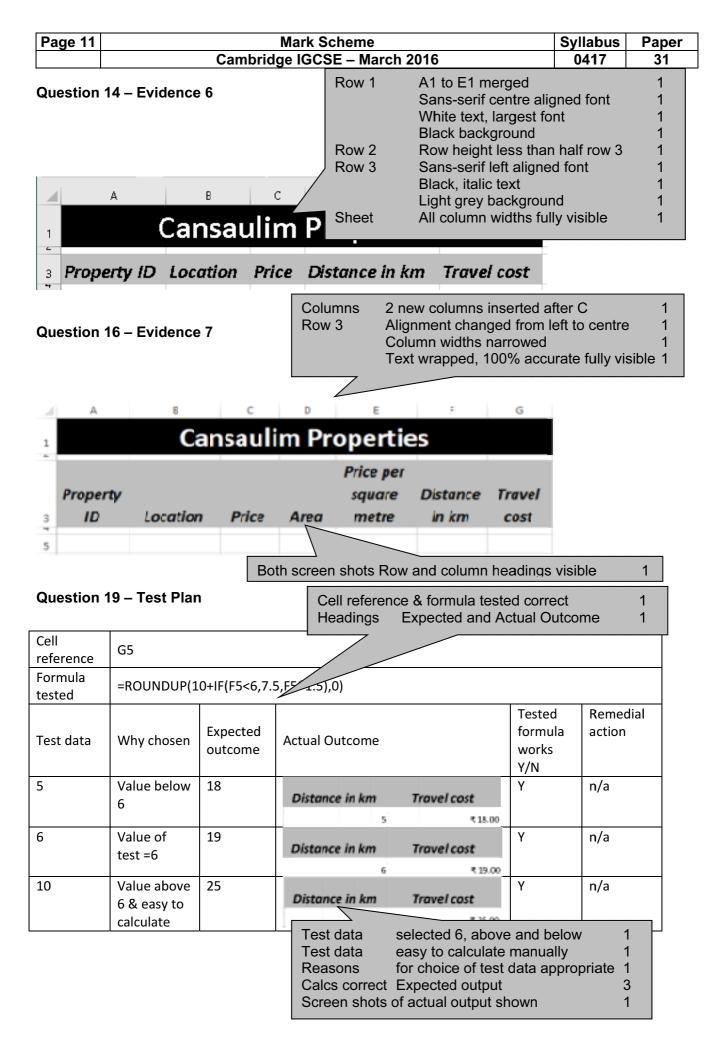
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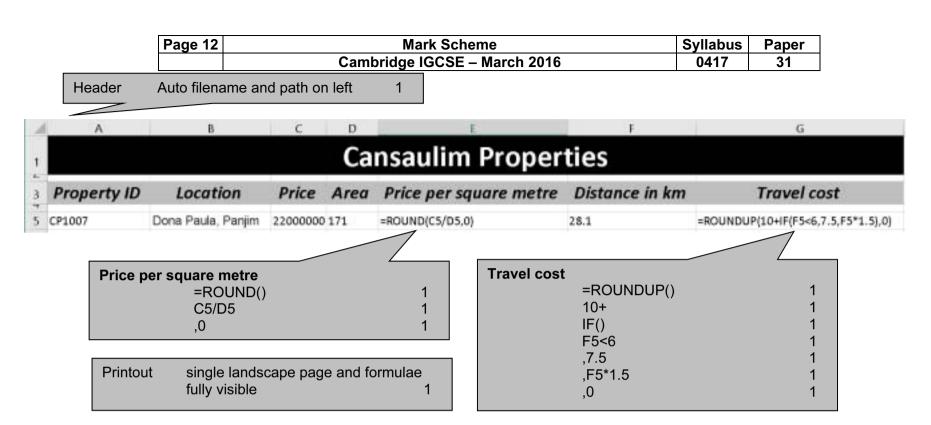
```
Question 12 – Evidence 4
                           Stylesheet m16ss.css attached
                                                       1
<!DOCTYPE html>
<html>
  <head>
    <link rel="stylesheet" type="text/css" href="m16ss.css">
    <title>Cansaulim Properties
                           Table
                                  centre aligned in the window
                                                       1
  </head>
                                  Width:900px
                                                       1
  <body>
    Top row
                                  height:200px
                                                       1
       <img src="m16logo.jpg"</pre>
alt="Cansaulim Properties logo">
         Left cell
                                                       1
                                  rowspan=5
         <h1>We design,
                                create, build,
                                            furnish,
                                                       or
rent</h1>
                           Top right
                                  colspan=2
                                                       1
         1
         <img src="m16img1.jpg"</pre>
                                 'image of a plot of building
land for sale">
                                  3 equal (300 pixels or 33%) cell widths
                           <img src="m16img6.jpg" alt="image of a builder making a</pre>
wall">
         1
                           Rows 3 and 5 height: 100px
       <h2>Prime location building plots for sale</h2>
         <h2>Local construction workers</h2>
         <img src="m16img7.jpg" alt="image of a beach front cafe">
         <img src="m16img4.jpg" alt="image of a Portuguese house">
         Alt attribute appropriate alt text for all 5 images 1
       <h2>Arossim beach front café for sale</h2>
         <h2>Portuguese style colonial house for sale</h2>
```

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	2	Row 6	height:80px colspan=3		1				
<pre></pre>									
<td>/table></td> <td>Hyperlink</td> <td>From Hothouse Desinerer mailto:</td> <th></th> <td>1 1</td>	/table>	Hyperlink	From Hothouse Desinerer mailto:		1 1				

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





Cansaulim Properties										
Property ID	Location	Price	Area	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 Columns C,E,G only in rupees to 2dp 1 Printout single page and fully visible 1										