### 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<sup>®</sup> and Cambridge International A and AS Level components.

® IGCSE is the registered trademark of Cambridge International Examinations.



Page	2		Mark Scheme	Syllabus	Paper	
		Cambridg	e IGCSE – March 2016	0417	31	
1	This webpag		n16cp.htm n all browsers and will have	e a table structure as		
	shown below	1000				
	A	B 60	0 × 200			
		C 300 × 300	D 300 × 300			
	300 × 1000	E 300 × 100	F 300 × 100			
		G 300 × 300	H 300 × 300			
	K	I 300 × 100	J 300 × 100			
	letters show	n in the table	d with a letter and all dimen must not appear on your fir opear on the final webpage.	-		
	Table borders Table width (c Left cell rows	s not visible or td width last	h no letters from QP visible row) set to 900px	1 mark 1 mark 1 mark 1 mark 1 mark 1 mark		
	Top right cell Rows 2 and 4 Rows 3 and 5 Row 6 colspa	200 high set to 300 hig set to 100 hig n set to 3	h	1 mark 1 mark 1 mark 1 mark		
	Row 6 set to 80 high1 mark3 equal (300 pixels or 33%) cell widths1 mark					
		•	cell widths		[11]	
2	Place in cell	•			[11]	
2		pixels or 33%) A the image n		1 mark	[11]	
2	Cansaulim Pr	pixels or 33%) A the image n operties logo p B the text We	n16logo.jpg			

Page 3	Mark Scheme	Syllabus	Paper			
	Cambridge IGCSE – March 2016 0417					
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 availab	ole.				
	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					
	<ul> <li>F enter the text Local construction workers</li> </ul>					
	<ul> <li>I enter the text Arossim beach front café for sale</li> </ul>					
	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	101			
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 mes hothouse-design@cie.org.uk with a subject line Make me a webs	-				
	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]			
		· mark	[ [,]			

Page 4	Mark Scheme		Syllabus	Paper		
	Cambridge IGCSE – March 2016		0417	31		
	·		· ·			
11	The stylesheet has been created but needs to be improved efficient syntax. Make sure your stylesheet contains no htn Open and examine the stylesheet m16ss.css in a suitable s	nl.				
	Add the following 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 det sans-serif font.	fault				
	h3 a 24 point font.					
	Add your name, Centre number and candidate number as a your stylesheet. Save this stylesheet in your m16_html folder.	comr	nent to			
	h1, h2 and h3 Trebuchet		1 mark			
			1 mark			
	,"Trebuchet MS"		1 mark			
	,sans-serif h3		I mark			
	{font-size:24pt} table and td		1 mark			
	{border:0}		1 mark			
	Use of table,td and h1,h2,h3 for efficient syntax for border-style Comment added with /* name */		1 mark 1 mark			
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			
13	Evaluate the webpage you have just created.					
	Bright colours within the page attract attention Magenta mask on background image makes reading text difficu 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 betwee background and text		1 mark 1 mark 1 mark 1 mark 1 mark			
	Image of beach front café is taken from too far away		1 mark			
	intege of bouch none one to taken none too far away	(N	lax 4 marks			

Page 5	Mark Scheme	Syllabus	Paper			
-	Cambridge IGCSE – March 2016	0417	31			
14	Create and format a spreadsheet that looks like this:					
	3 Property ID Location Price Distance in km Travel cost					
	Save this spreadsheet with the file name m16_ and your Centre n candidate number, e.g. m16_ZZ999_9999 Place an automated filename which includes the file path, on the header.					
	Row 1	<i>,</i> , ,				
	A1 to E1 merged	1 mark 1 mark				
	Sans-serif centre aligned font White text, largest font	1 mark				
	Black background	1 mark				
	Row 2	<b>1</b>				
	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:					
	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	<b>1</b>				
	Alignment changed from left to centre Column widths narrowed	1 mark 1 mark				
	Text wrapped, 100% accurate, fully visible	1 mark				
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()	1 mark				
	-ROOND() C5/D5	1 mark				
	,0	1 mark				

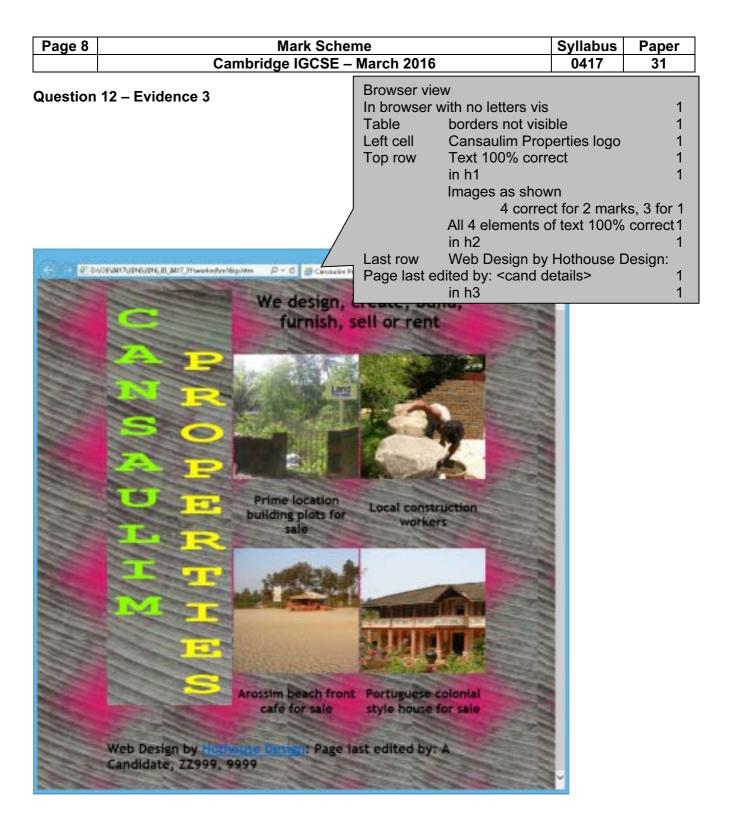
Page 6						Paper	
		Cambridge IGCSE –	March 2016	6		0417	31
18	In cell G5 enter a formula to calculate the travel cost to this property. This is 10 rupees plus: • 7.5 if the distance is less than 6 • The distance multiplied by 1.5 if the distance is not less than 6						
	Round the trav	el cost up to the next	whole rupe	e.			
	=ROUNDUP() 10+ IF() F5<6 ,7.5 ,F5*1.5 ,0					1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark	
19	Complete the unfinished Test Plan in your Evidence Document: <ul> <li>Replace the letters A and B with suitable headings</li> <li>Choose 3 pieces of test data to test the formula used in step 18</li> <li>Complete the test table as you carry out the tests</li> <li>Take screenshots from your tests and place these in the Test Plan.</li> </ul> Make sure that the test data and results are clearly visible.					•	
	Headings Expect Test data select Test data chose Reasons for cho Expected output	nd formula tested corre ted and Actual Outcom ed 6, one above and or n is easy to calculate m ice of test data approp calculated correctly actual output shown	ne below nanually			1 mark 1 mark 1 mark 1 mark 1 mark 3 marks 1 marks	[9]
20		ate formatting to row	-		et	1 mark	[1]
21	Columns C, E and G only formatted to 2dp in rupees       1 mark         Save and print the spreadsheet showing the formulae. Make sure: <ul> <li>it fits on a single landscape page</li> <li>the contents of all cells are fully visible.</li> </ul>						
	Single landscap	e page and contents of	all cells fully	visible		1 mark	[1]
22	Add the followi	ng property to your s	preadsheet:				
	Property ID	Location	Price	Area	Distance	e in km	
	CP1007	Dona Paula, Panjim	22000000	171	28.1		
	<ul> <li>Print the spreadsheet showing the values. Make sure:</li> <li>the printout fits on a single page</li> <li>the contents of all cells are fully visible.</li> </ul>						
	Printout fits on s	ingle page and content	s of all cells	are fully	visible	1 mark	[1]

Page 7	Mark Schei	Syllabus	Paper	
	Cambridge IGCSE –	0417	31	
Question	11 – Evidence 1	h1,h2,h3 Trebuchet , "Trebuchet M3 , sans-serif h3 font-size:24pt table,td Use of table,td and h1,h2,h3 border-style Correct comment added with	for efficient	1
	m16ss.css - Notepad	Correct comment added with	i / ioimat /	
<u>F</u> ile <u>E</u> dit	t F <u>o</u> rmat <u>V</u> iew <u>H</u> elp			
body	{background-image:url('m16bg.jp background-color:#7c7d76}	og');		
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	3 {font-family:Trebuchet,"Trebuch	net MS", sans-serif}		
table,to	d {border:0}			
/* A Car	ndidate, XX999 9999 */	~ _		

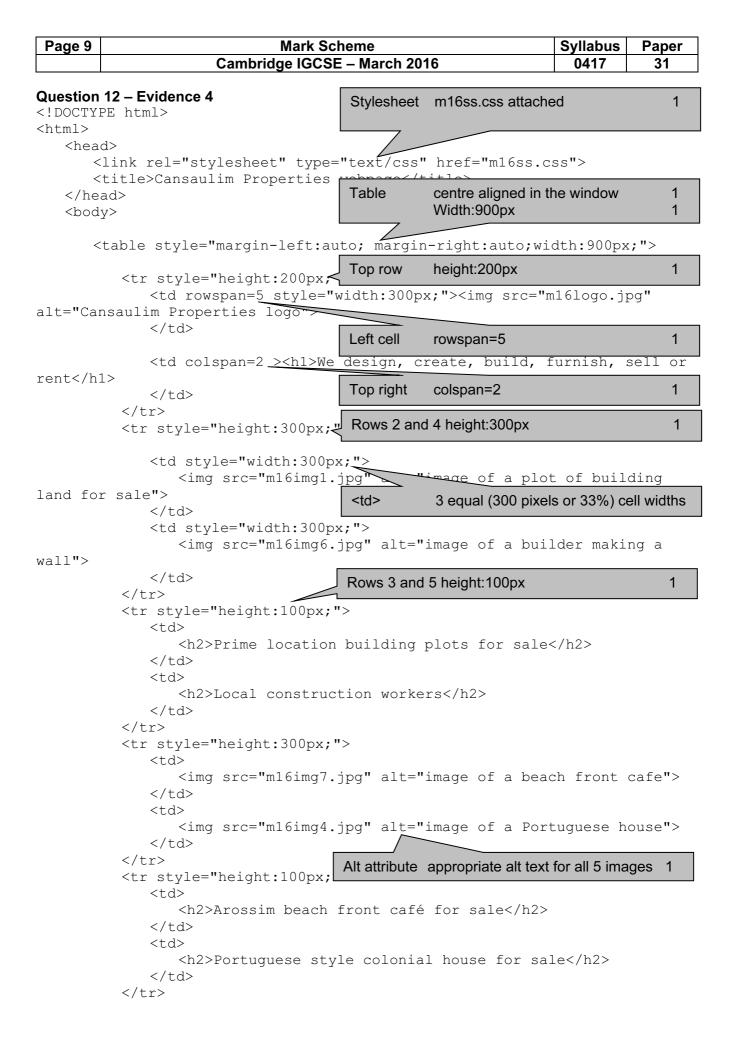
#### **Question 12 – Evidence 2**

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

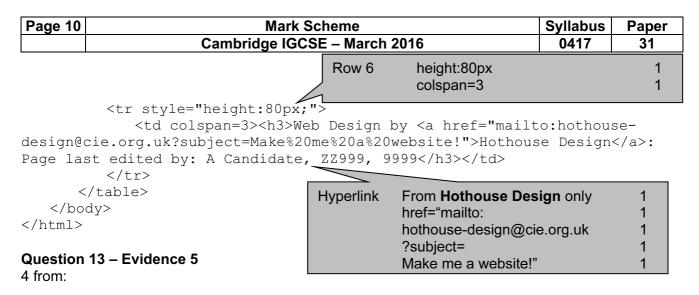




© Cambridge International Examinations 2016
WWW.YOUSEND-DDDDGSpot.COM



© Cambridge International Examinations 2016 WWW.YOUSEND-DD.DIOGSPOT.COM

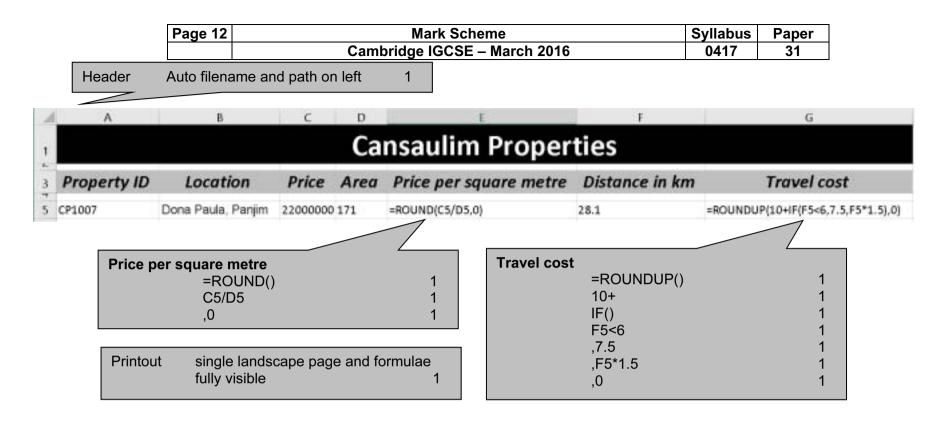


Bright colours within the page attract attention Magenta mask on background image makes reading text difficult Text under image/Alt text identifies the image Colour schemes do not look like professional company site Logo does not blend with background/has poor contrast between background and text Image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

Max 4 marks



Page 11		Combrid	Mark Scheme	2016		llabus 0417	Pape
		Cambrid	Ige IGCSE – March			J417	31
Question <sup>•</sup>	14 – Evidence	9 6	Row 1 Row 2 Row 3	Sans-serif centre align White text, largest font Black background Row 2 Row height less than h			1 1 1 1 1
				Sans-serif lef Black, italic te	-	i i t	1
	A	В	с /	Light grey ba			1
	Ca	nsauli	D Sheet	All column wi		sible	1
1	Cal	ISauli					
3 Prope	erty ID Loc	ation Pri	ice Distance in l	km Travel c	ost		
Question	16 – Evidence	97	Row 3 Alig Co	ew columns ins gnment changed lumn widths nar xt wrapped, 100	d from left t rowed	o centre	1 1 1 ible 1
A	Б	С	DE	F	G		
1	C	ansaul	im Properti	es			
			Price per				
Proper	tv		square		ravel		
3 ID	Location	n Price	Area metre		cost		
-	cocurio						
5				_			
		Bc	th screen shots Row	and column he	adings visi	ble	1
Question	19 – Test Plar	ı		e & formula teste Expected and A		ome	1 1
Cell	G5						
reference	60						
Formula tested	=ROUNDUP(1	.0+IF(F5<6,7.	5,F55),0)				
lesieu			-		Tested	Remed	ial
Test data	Why chosen	Expected outcome	Actual Outcome		formula works Y/N	action	
5	Value below 6	18	Distance in km	Travel cost	Y	n/a	
6	Value of	19	5	₹18.00	Y	n/a	
U	test =6		Distance in km	Travel cost		11/a	
10	Value above 6 & easy to calculate	25	Distance in km	Travel cost	Y	n/a	
			Test data e		manually data appro	1	



# **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 Printout	Columns C,E, single page ar		es to 2d	ip 1 1		

© Cambridge International Examinations 2016

