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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Page 2			Mark Scheme	Syllabus	Paper	
		0417	31			
1			n16cp.htm n all browsers and will hav	e a table structure as		
	A	В				
	A	10000	0 × 200			
		C 300 × 300	D 300 × 300			
	300 × 1000	E 300 × 100	F 300 × 100			
		G 300 × 300	H 300 × 300			
	к	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 pear on the final webpage.	nal webpage.		
	Table borders Table width (c Left cell rowsp	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 1 mark		
	Row 6 set to 80 high1 mark3 equal (300 pixels or 33%) cell widths1 mark					
2	Place in cell A the image m16logo.jpg					
	Cansaulim Properties logo placed in top row 1 mark					
3			design, create, build, furnis	sh, sell or rent		
	Set this text a Text 100% co	-		1 mark		
	Text set into s	style h1		1 mark	[2]	

Page 3	Mark Scheme	Syllabus	Paper		
	Cambridge IGCSE – March 2016	0417	31		
4	Using the most appropriate image from m16img1.jpg to m16img8 in cell:	Sipg place			
	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	ble.			
	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 la 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= Make me a website!"	1 mark 1 mark	[5]		
10	Attach the stylesheet m16ss.css to the web page.		L - J		
	Save the webpage.				
	Stylesheet m16ss.css attached to webpage	1 mark	[1]		
	orgiosheer in ross.cos allacheu lo webpage	i illaik	[1]		

Page 4	Mark Sche	me	Syllabus	Paper				
	Cambridge IGCSE –	March 2016	0417	31				
11	The stylesheet has been created but efficient syntax. Make sure your styl Open and examine the stylesheet m	esheet contains no html.						
	Add the following to this stylesheet:							
	h1, h2 and h3 Trebuchet if this is not available then Tre if neither of these fonts a sans-serif font.							
	h3 a 24 point font.							
	Add your name, Centre number and your stylesheet. Save this stylesheet in your m16_htr		ment to					
	h1, h2 and h3		<i>,</i> .					
	Trebuchet		1 mark					
	,"Trebuchet MS" ,sans-serif		1 mark 1 mark					
	,sans-sem h3		I mark					
	{font-size:24pt} table and td		1 mark					
	{border:0}		1 mark					
	Use of table,td and h1,h2,h3 for efficier Comment added with /* name */	nt syntax for border-style	1 mark 1 mark					
				[,]				
12	A website is tested before it is uploa would develop a test plan to test the		-					
	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 at Magenta mask on background image n Text under image/Alt text identifies the Colour schemes do not look like profes Logo does not blend with background/h background and text Image of beach front café is taken from	nakes reading text difficult image sional company site nas poor contrast between n too far away	1 mark 1 mark 1 mark 1 mark 1 mark 1 mark					
		1)	Max 4 marks)) [4]				

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 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 White text, largest font	1 mark 1 mark				
	Black background	1 mark				
	black background	THAIR				
	Row 2					
	Row height less than half row 3	1 mark				
	David 1					
	Row 3 Sana sprif left sligned fort	1 mark				
	Sans-serif left aligned font 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						
10	Edit the spreadsheet so it looks like this:					
	A B C D E F G					
	Cansaulim Properties					
	Price per					
	Property square Distance Travel ID Location Price Area metre in km cost					
	5					
	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 the price divided by the area. Use a function to round this value to places.					
	=ROUND()	1 mark				
	C5/D5	1 mark				
	,0	1 mark	[3]			
	,		1.21			

Page 6		Mark Sche	me			Syllabus	Paper		
		Cambridge IGCSE –	March 2016	6		0417	31		
18	In cell G5 enter	a formula to calculate	e the travel	cost to t	his prope	rtv This is			
10	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()					1 mark			
	10+					1 mark			
	IF()					1 mark			
	F5<6					1 mark			
	,7.5					1 mark			
	,F5*1.5					1 mark			
	,0					1 mark	[1]		
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 a	nd formula tested corre	ct			1 mark			
		ted and Actual Outcom				1 mark			
	• ·	ed 6, one above and or				1 mark			
		n is easy to calculate m	•			1 mark			
		ice of test data appropr	riate			1 mark			
		calculated correctly				3 marks			
	Screen shots of	actual output shown				1 marks	[9]		
20	Apply appropri	ate formatting to row	5 of the spr	eadshee	et				
	Columns C, E a	nd G only formatted to 2	2dp in rupee	S		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 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				
	 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 1 mark								

Page 7		Mark Scheme					
	Cambridge IGCSE –	March 2016	0417	31			
Question	11 – Evidence 1	h1,h2,h3 Trebuchet , "Trebuchet M3 , sans-serif h3 font-size:24pt table,td {border:0} 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 /	1			
<u>F</u> ile <u>E</u> dit	: F <u>o</u> rmat <u>V</u> iew <u>H</u> elp						
body	{background-image:url('m16bg.jp background-color:#7c7d76});					
hl	{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	<pre>3 {font-family:Trebuchet,"Trebuch</pre>	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







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		Comhrid	Mark Scheme	2016		llabus	Pape 21
		Cambrid	dge IGCSE – March	2010		0417	31
Question	14 – Evidence		Row 1	A1 to E1 merg			1
Juestion	14 - Evidence	9 0		Sans-serif cen	ntre aligned	d font	1
				White text, larg	gest font		1
				Black backgro	und		1
			Row 2	Row height les		f row 3	1
			Row 3	Sans-serif left			1
				Black, italic te	•		1
	A	в	c /	Light grey bac			1
			Ohast			aibla	•
	Car	nsauli	m P Sheet	All column wid	iths fully vi	sible	1
	Cui	Ibaan					
-							
з Ргоре	erty ID Loc	ation Pri	ice Distance in l	km – Travel co	ost		
4	-	1					
			Columns 2 r	new columns inse	erted after	С	1
_				gnment changed		-	1
Question '	16 – Evidence	e 7		lumn widths narr		o oontre	1
						fully de	ible 1
			le	xt wrapped, 1009	% accurate	iuliy visi	ible 1
	В	с	D E	F	G		
	6	anaaul	m Dronout!	00			
1	C	ansaul	im Properti	es			
-							
			Price per				
Proper	tv		square	Distance Tr	avel		
10							
2 10			A	In the second			
	Location	n Price	Area metre	in km c	ost		
-	Locatio	n Price	Area metre	in km c	ost		
	Location	n Price	Area metre	in km c	ost		
-	Location		Area metre oth screen shots Rov			ble	1
5		Во	oth screen shots Rov	v and column hea	adings visi	ble	1
5	Location 19 – Test Plar	Во	oth screen shots Rov	v and column hea e & formula teste	adings visi		1
5		Во	oth screen shots Rov	v and column hea	adings visi		1 1 1
S Question	19 – Test Plar	Во	oth screen shots Rov	v and column hea e & formula teste	adings visi		1 1 1
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Question	19 – Test Plar	Во	oth screen shots Rov	v and column hea e & formula teste	adings visi		1
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Question Cell reference Formula	19 – Test Plar	Bo	oth screen shots Row Cell reference Headings	v and column hea e & formula teste	adings visi		1 1 1
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Question Cell reference Formula tested	19 – Test Pla r G5	Bc 0+IF(F5<6,7. Expected	oth screen shots Row Cell reference Headings	v and column hea e & formula teste	adings visi ed correct etual Outco Tested formula	me	1 1
Question 7 Cell reference Formula rested	19 – Test Plar G5 =ROUNDUP(1	Bc .0+IF(F5<6,7.	oth screen shots Rov Cell reference Headings 5,F ⁵ r.5),0)	v and column hea e & formula teste	adings visi ed correct etual Outco Tested formula works	Remedi	1 1
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Question Cell reference Formula tested	19 – Test Plar G5 =ROUNDUP(1	Bc 0+IF(F5<6,7. Expected	oth screen shots Rov Cell reference Headings 5,F5 Actual Outcome	v and column hea e & formula teste Expected and Ac	adings visi ed correct etual Outco Tested formula works	Remedi	1 1
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Question 7 Cell reference Formula tested Test data	19 – Test Plar G5 =ROUNDUP(1 Why chosen Value below 6	Bo D+IF(F5<6,7. Expected outcome 18	Difference Cell reference Headings 5,F ^{f-} 1.5),0) Actual Outcome Distance in km	v and column hea e & formula teste Expected and Ac	adings visi ed correct etual Outco Tested formula works Y/N Y	Remedi action n/a	1 1
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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		G only in rupeond fully visible	es to 2d	p 1 1			