

### INFORMATION AND COMMUNICATION TECHNOLOGY

0417/03 October/November 2016

Paper 3 Practical Test B MARK SCHEME Maximum Mark: 80

Published

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.

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This document consists of 17 printed pages.

**CAMBRIDGE** International Examinations

Page 2	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – October/November 2016	0417	03

No	Steps	Mark
1	Open and examine all the supplied web pages. Evaluate the efficiency of the markup for these pages and explain how improvements could be made.	[4]
	Valid positive or negative comment on efficiency1 mark with a reason1 markOne method of improving the efficiency1 mark with an explanation1 markExample answer:1 markInternal styles not efficient (for these pages)duplication of effort to create and edit1	
	Replace internal styles with an attached stylesheet only have to edit the styles once	
2	Using a suitable software package, open the web page nov163gtb.htm Replace the text <i>A Candidate, ZZ999, 9999</i> with your name, Centre number and candidate number. Replace the text <i>Image A</i> with the image 163beach.jpg	[1]
	Beach image replaced text <i>Image A</i> in top cell 1 mark	
3	Replace the text <i>Image B</i> with the image 163logo.jpg Resize this image to 1000 pixels high by 380 pixels wide. Make sure that appropriate text is displayed if this image is not available.	[3]
	GTB logo replaced text Image B in right cell1 markImage resized to 380px wide by 1000px high1 markAppropriate Alt text attribute applied1 mark	
4	Using the most appropriate image from 163img1.jpg to 163img8.jpg, replace the text: <i>Image C</i> with the image of a chef preparing food <i>Image D</i> with the image of an elephant ride <i>Image E</i> with the image of a river boat.	[3]
	Image C replaced with the image of a chef preparing food1 markImage D replaced with the image of an elephant ride1 markImage E replaced with the image of a river boat1 mark	
5	Make the text <i>Click here</i> a hyperlink to return to the top of the page.	[3]
	Anchor with id name set above table in body section1 markHyperlink reference set around the correct text1 markto this internal anchor1 mark	

Page 3	Mark Scheme	Syllabus	Paper
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No	Steps	Mark
6	Make the text <i>Hothouse Design</i> a hyperlink to send an email message to: hothouse-design@cie.org.uk with a subject line Web design enquiry	[5]
	Anchor from text Hothouse Design1 markhref="mailto:1 markhothouse-design@cie.org.uk1 mark?subject=1 markWeb design enquiry"1 mark	
7	Set the name for a default target window to _self	[2]
	<base target="_self"/> 1 markPlaced in head section outside style tags1 mark	
8	Make the image of the elephant ride a hyperlink to the web page for the Goa Elephant Sanctuary to open in a new window called _blank Save the webpage.	[3]
	Anchor from image 163img4.jpg1 markhref="nov163ges.htm"1 marktarget="_blank"1 mark	
9	You need to test the website at this point. Explain in your evidence document what you would test in this website before it is uploaded to the internet. 4 from:	[4]
	Test <u>internal</u> links between pages Test <u>internal</u> anchor/hyperlink works Test mailto <u>opens</u> an <u>email</u> client Test mailto has correct recipient (hothouse-design@cie.org.uk) Test mailto has correct Subject line (Web design enquiry) Test alt text works for each image Test link to GES opens in a new window [Max 4]	

Paç	ge 4		Mark Scheme	Syllabus	Paper
		Cambi	ridge IGCSE – October/November 2016	0417	03
No			Steps		Mark
0			ylesheet nov163ss.css or this stylesheet are:		[11]
	table		external border colour is FFFF66 internal border colour red FF, blue CC, green 66 visible solid lines external line width 4 pixels internal gridlines 2 pixels all collapsed cell padding 10 pixels cell spacing 10 pixels		
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	border-co	olor:#FFFF66 ollapse:collap	-	1 mark 1 mark 1 mark	
	<b>td</b> border-co border-wi	olor:#FF66CC	; ;	1 mark 1 mark	
	Candidat	type:square e details as a ble, td for effi	a comment icient syntax for border-style	1 mark 1 mark 1 mark	
1	Open the Attach th	e web page s	saved in step 8 in your editing software. It saved in step 10 after the in-line styles.		[2]
	Styleshee	et nov163ss.	css attached to webpage in <head> section after in</head>	n-line styles. 1 mark	
	Browser	displays atta	ched stylesheet features	1 mark	
2	Save this and cand	s file as a sp lidate numb	tware package, load the file 163resort.csv preadsheet with the file name 163_ and your Ce er. For example, 163_ZZ999_9999 file name which includes the file path, on the ri		[1]

Pa	ge 5 Mark Scheme	Syllabus	Paper
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No	Steps		Mark
13	Insert 4 new rows before row 1.		[1]
	Correctly inserted rows	1 mark	
14	In cell A1 enter the title: Hothouse Design costs for the Goan Tourist Board		[1]
	Correctly inserted title 100% accurate	1 mark	
15	Merge cells A1 to G1. Format this cell to have a black background, with a white, 36 point, c aligned, sans-serif font. Make sure all the text is fully visible.	entre	[5]
	A1 to G1 merged and Centre aligned Sans-serif font	1 mark 1 mark	
	white text, 36 point font	1 mark	
	black background	1 mark	
	Heading fully visible and may be wrapped.	1 mark	
16	In cell F3 enter the text Rate. In cell F4 enter 124.2 rupees.		[1]
	Text and numbers added accurately in the correct cells	1 mark	
17	Make the contents of cells in the rows starting with <i>Resort</i> and <i>Numb rooms…</i> bold and underlined.	per of	[1]
	Rows 5 and 26 bold and underlined	1 mark	
18	In cell D6 enter a function to look up, from the external file 163taluka. <i>Taluka name</i> for this resort.	csv the	[6]
	=VLOOKUP()	1 mark	
	C6 as relative reference	1 mark	
	External file '163taluka.csv'	1 mark	
	Correct range !\$A\$2:\$B\$12 with absolute referencing ,2	1 mark 1 mark	
	,z ,False or ,0	1 mark	
19	In cell E6 enter a function to look up, from the external file 163taluka. <i>Location</i> for this resort.	csv the	[4]
	=VLOOKUP(C6,)	1 mark	
	External file '163taluka.csv'	1 mark	
	Correct range !\$A\$2:\$C\$12 with absolute referencing	1 mark 1 mark	
	,3,0	i mark	

Page 6	Mark Scheme	Syllabus	Paper
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No	Steps		Mark
20	In cell G6 enter a formula to calculate the advertising cost which is the ra (entered in step 16) multiplied by: 25 if the <i>resort</i> has between 1 and 50 rooms 75 if the <i>resort</i> has more than 50 but less than 101 rooms 150 if the <i>resort</i> has more than 100 but less than 201 rooms 200 if the <i>resort</i> has more than 200 rooms	ate	[8]
	=F4 multiplied by (for all instances) as absolute cell reference 3 nested IFs Containing only relative cell references IF(F6<51,25,) IF(F6<101,75,) IF(F6<201,150 ,200)	1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark	
21	In cell B27 enter a formula to add the number of rooms in that location ir column A.	1	[4]
	=SUMIF() \$E\$6:\$E\$24 must be absolute referencing A27 must be relative referencing \$F\$6:\$F\$24 must be absolute referencing	1 mark 1 mark 1 mark 1 mark	
22	Replicate the formulae entered in steps 18, 19, and 20 for each resort. Replicate the formula entered in step 21 for each location.		[1]
	All 4 formulae replicated	1 mark	
23	Apply appropriate formatting to all cells		[1]
	Rate & Advertising cost column formatted to 2dp in rupees	1 mark	
24	Save and print the spreadsheet showing the formulae. Make sure: Your name, Centre number and candidate number are entered in an appropriate place on your spreadsheet it is in landscape orientation the row and column headings are displayed the contents of all cells are fully visible.		[2]
	Landscape orientation & contents of all cells fully visible Row and column headings displayed	1 mark 1 mark	
25	Print the spreadsheet showing the values. Make sure: it is in portrait orientation the printout fits on a single page the contents of all cells are fully visible.		[1]
	Printout fits on single portrait page and contents of all cells are fully visible	1 mark	

Pag	ge 7	Mark Scheme	Syllabus	Paper
		Cambridge IGCSE – October/November 2016	0417	03
No		Steps		Mark
26	Cha add	nge the data model so that the resort <i>Sun Village</i> has an extra 50 ed.	rooms	[1]
	Cha	nge made as specified	1 mark	
27		e and print the spreadsheet showing the values: Make sure: it is in portrait orientation the printout fits on a single page the contents of all cells are fully visible.		[1]
	Prin	tout fits on single portrait page and contents of all cells are fully visible	1 mark	

Page 8	Mark Scheme	Syllabus	Paper
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### **Evidence Document**

## **Question 1**

Valid positive or negative comment on efficiency	1 mark
with a reason	1 mark
One method of improving the efficiency	1 mark
with an explanation	1 mark
Example answer:	

Internal styles not efficient (for these pages)... ...duplication of effort to create and edit Replace internal styles with an attached stylesheet... ...only have to edit the styles once

Page 9	Mark Scheme	Syllabus	Paper
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## **Question 8**

Question 8				
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Page 10	Mark Scheme		Syllabus Paper
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Question 9			
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Test mailto has	correct recipient (hothouse-design@c	cie.org.uk)	
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Question 10			[Max 4
<u>File E</u> dit F <u>o</u> rm			
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Page 12	Mark Sc	heme	Syllabus	Paper	
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Question 11					
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Page 13	Mark Scheme			Syllabus	Paper
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# Question 24

Header - Automated filename with file path on right

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	A	B	C	D	
		Hothouse	2 I	esign costs fo	
1				4 new ro	ws before row 1 1
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5	Resort	Beach	Tcode	Taluka	
6	<b>—</b>		BRD	VLO0KUP(06,'163taluka.csv1\$A\$2:\$B\$12,2,0)	
7	Taluka		off.D	=VLO0KUP(C7,'163taluka.csv1\$A\$2:\$B\$12,2,0)	
8	=VLOOKUP()	1	BRD	=VLD0KUP(08,'163taluka.csv1\$A\$2:\$B\$12,2,0)	
9	C6 as relative referen	ce 1	BRD	=VLD0KUP(09,'163taluka.cs/1\$A\$2:\$B\$12,2,0)	
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Page 15	Mark Scheme	Syllabus	Paper
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6	=VLOOKUP(C6,	'163taluka.csv'!\$A\$	2:\$C\$12,3,0)	27	=\$F\$4*IF	F6<51,2	5,IF(F6<101,75,IF(F6<201,150,200)))	
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13	=VLOOKUP(C13	,'163taluka.csv'!\$A	\$2:\$C\$12,3,0)	75	=\$F\$4*IF	F13<51,	(3<101,75,IF(F13<201,150,200))	)
14	=VLOOKUP(C14	,'163taluka.csv'!\$A	\$2:\$C\$12,3,0)	55	=\$F\$4*IF	F14<51,	<101,75,IF(F14<201,150,200))	)
15	=VLOOKUP(C15	,'163taluka.csv'!\$A	\$2:\$C\$12,3,0)	142	=\$F\$4*IF	F15<51,	101,75,IF(F15<201,150,200))	)
16	=VLOOKUP(C16	i,'163taluka.csv'!\$A	\$2:\$C\$12,3,0)	205	=\$F\$4*IF	F(F16<51,	1,75,IF(F16<201,150,200))	)
17	=VLOOKUP(C17	,'163taluka.csv'!\$A	\$2:\$C\$12,3,0)	69	=\$F\$4*IF			•
18	=VLOOKUP(C18	,'163taluka.csv'!\$A	\$2:\$C\$12,3,0)	97	=\$F\$4*IF	-	rtising cost nultiplied by (for all instances)	1
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20	=VLOOKUP(C20	),'163taluka.csv'!\$A	\$2:\$C\$12,3,0)	153	=\$F\$4*IF		ted IFs	1
21	=VLOOKUP(C21	,'163taluka.csv'!\$A	\$2:\$C\$12,3,0)	140	=\$F\$4*IF	-	taining only relative cell references	s1
22	=VLOOKUP(C22	,'163taluka.csv'!\$A	\$2:\$C\$12,3,0)	132	=\$F\$4*IF	-	<51,25,)	1
23	=VLOOKUP(C23	,'163taluka.csv'!\$A	\$2:\$C\$12,3,0)	181	=\$F\$4*IF	<b>`</b>	<101,75,)	1
24	=VLOOKUP(C24	,'163taluka.csv'!\$A	\$2:\$C\$12,3,0)	206	=\$F\$4*IF		<201,150	1
25						,2Ò0)		1
26								
27							ation All 4 formulae	1
							and column headings present	1
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# Hothouse Design costs for the Goan Tourist Board

Rows 5 and 26 Bold	Rows 5 and 26 Bold and underlined 1					Rate ₹ 124.20		
Resort	Beach	Tcode	Taluka	Location	Rooms	Advertising cost		
 Living Room	Vagator	BRD	Bardez	North West	27	₹ 3,105.00		
Sun Village	Anjuna	BRD	Bardez	North West	25	₹ 3,105.00		
Marinha Dourada	Baga	BRD	Bardez	North West	206	₹ 24,840.00		
Ronil Beach	Baga	BRD	Bardez	North West	24	₹3,105.00		
Colonia Santa Maria	Baga	BRD	Bardez	North West	107	₹18,630.00		
Santiago	Calangute	BRD	Bardez	North West	71	₹9,315.00		
Silver Sands Holiday Village	Candolim	BRD	Bardez	North West	99	₹9,315.00		
The O resort and spa	Candolim	BRD	Bardez	North West	75	₹9,315.00		
Aldia Santa Rita	Candolim	BRD	Bardez	North West	55	₹9,315.00		
Vivanta by Taj-Fort Aguada	Candolim	BRD	Bardez	North West	142	₹18,630.00		
Cidade de Goa	Vainguinim	TSW	Tiswadi	West	205	₹24,840.00		
Sandalwood Hotel and Retreat	Vainguinim	TSW	Tiswadi	West	69	₹9,315.00		
Heritage Village	Arossim	MGM	Mormugao	West	97	₹9,315.00		
Park Hyatt	Utorda	MGM	Mormugao	West	250	₹24,840.00		
Alila Diwa	Utorda	SLC	Salcete	West	153	₹18,630.00		
Taj Exotica	Benaulim	SLC	Salcete	West	140	₹18,630.00		
Radisson Blu	Cavelossim	SLC	Salcete	West	132	₹18,630.00		
Dona Sylvia	Cavelossim	SLC	Salcete	West	181	₹18,630.00		
Leela Kempinski	Cavelossim	SLC	Salcete	West	206	₹24,840.00		
Number of rooms by Location						Λ		
Central	(	)						
East		)						
North	(	-						
North East		, )						
North West	831				/			
South	(		ormat	Pate & Advo		st in rupees 2dp 1		
South West				Single portra				
West	1433		intoot		in page a			
west	143.	,						

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## **Question 27**

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# Hothouse Design costs for the Goan Tourist Board

					Rate	
					₹124.20	
<u>Resort</u>	<b>Beach</b>	<u>Tcode</u>	<u>Taluka</u>	Location	Rooms	Advertising cost
Living Room	Vagator	BRD	Bardez	North West	27	₹3,105.00
Sun Village	Anjuna	BRD	Bardez	North West	75	₹9,315.00
Marinha Dourada	Baga	BRD	Bardez	North West	206	₹24,840.00
Ronil Beach	Baga	BRD	Bardez	North	24	₹3,105.00
Colonia Santa Maria	Baga	BRD	Bardez	vest	107	₹18,630.00
Santiago Sun V	/illage Data cha	anged t	o 75 rooms	1	71	₹9,315.00
Silver Sands Holiday V Printo	•	-	age & fully	visible 1	99	₹9,315.00
The O resort and spa	candonini	вкр	Baruez	North West	75	₹9,315.00
Aldia Santa Rita	Candolim	BRD	Bardez	North West	55	₹9,315.00
Vivanta by Taj-Fort Aguada	Candolim	BRD	Bardez	North West	142	₹18,630.00
Cidade de Goa	Vainguinim	TSW	Tiswadi	West	205	₹24,840.00
Sandalwood Hotel and Retreat	t Vainguinim	TSW	Tiswadi	West	69	₹9,315.00
Heritage Village	Arossim	MGM	Mormugao	West	97	₹9,315.00
Park Hyatt	Utorda	MGM	Mormugao	West	250	₹24,840.00
Alila Diwa	Utorda	SLC	Salcete	West	153	₹18,630.00
Taj Exotica	Benaulim	SLC	Salcete	West	140	₹18,630.00
Radisson Blu	Cavelossim	SLC	Salcete	West	132	₹18,630.00
Dona Sylvia	Cavelossim	SLC	Salcete	West	181	₹18,630.00
Leela Kempinski	Cavelossim	SLC	Salcete	West	206	₹24,840.00

### Number of rooms by Location

Central	0
East	0
North	0
North East	0
North West	881
South	0
South West	0
West	1433