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**INFORMATION AND COMMUNICATION TECHNOLOGY**

**0417/31**

Paper 3 Practical Test B

**May/June 2016**

MARK SCHEME

Maximum Mark: 80

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**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.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2016 series for most Cambridge IGCSE<sup>®</sup>, Cambridge International A and AS Level components and some Cambridge O Level components.

<b>Page 2</b>	<b>Mark Scheme</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>Cambridge IGCSE – May/June 2016</b>	<b>0417</b>	<b>31</b>

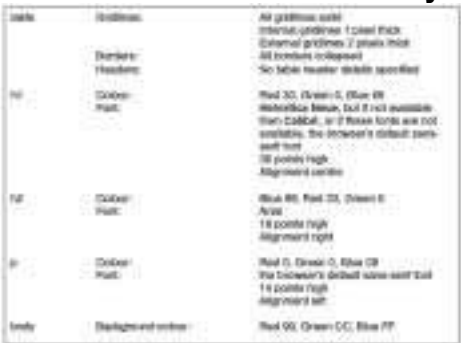
### Task 1 – Evidence Document

This mark scheme includes the screenshots of the printed evidence that candidates should have included and screen shots from the Evidence Document.

### Task 2 – Web Page

*You are going to help some trainees develop web pages for The Manta Conservation Project. The first web page will be part of a website used to raise awareness of, and get donations for, conservation projects around the world.*

No	Steps	Mark
1	Create a new folder called 1631_html	
2	Locate the following files and place them in your 1631_html folder 1631flags.pdf 1631img1.png 1631img2.png 1631img3.png 1631img4.png 1631img5.png 1631img6.png 1631img7.png 1631logo.png 1631maldives.htm 1631manta.htm 1631manta.jpg 1631manta1.tif 1631stylesheet.css	

No	Steps	Mark																																																																														
3	<p>A trainee has started to create a single stylesheet to be used with the website. The stylesheet was not finished and contains a number of errors. Open the stylesheet 1631stylesheet.css in a suitable software package. The web page and stylesheet must work in any browser. All colour codes are in hexadecimal. Make sure your stylesheet contains no html.</p>  <p>Correct and complete this stylesheet using the information above. Save this stylesheet in your 1631_html folder. Use the filename 1631st followed by your candidate number. For example, if your candidate number is 9999 then you will call the file 1631st9999.css</p> <table> <tr> <td><b>table</b></td> <td></td> <td></td> </tr> <tr> <td>border-style:</td> <td>solid</td> <td>1 mark</td> </tr> <tr> <td>border-width:</td> <td>2px</td> <td>1 mark</td> </tr> <tr> <td>border-collapse:</td> <td>collapse</td> <td>1 mark</td> </tr> <tr> <td><b>td</b></td> <td></td> <td></td> </tr> <tr> <td>border-style:</td> <td>solid</td> <td>1 mark</td> </tr> <tr> <td>border-width:</td> <td>1px</td> <td>1 mark</td> </tr> <tr> <td><b>h1</b></td> <td></td> <td></td> </tr> <tr> <td>color:</td> <td>#330066</td> <td>1 mark</td> </tr> <tr> <td>font-family:</td> <td>"Helvetica Neue"</td> <td>1 mark</td> </tr> <tr> <td></td> <td>, Calibri</td> <td>1 mark</td> </tr> <tr> <td></td> <td>, sans-serif;</td> <td>1 mark</td> </tr> <tr> <td>font-size:</td> <td>36pt</td> <td>1 mark</td> </tr> <tr> <td>text-align:</td> <td>center</td> <td>1 mark</td> </tr> <tr> <td><b>h2</b></td> <td></td> <td></td> </tr> <tr> <td>color:</td> <td>#330099</td> <td>1 mark</td> </tr> <tr> <td>font-family:</td> <td>Arial</td> <td>1 mark</td> </tr> <tr> <td>font-size:</td> <td>18pt</td> <td>1 mark</td> </tr> <tr> <td>text-align:</td> <td>right</td> <td>1 mark</td> </tr> <tr> <td><b>p</b></td> <td></td> <td></td> </tr> <tr> <td>color:</td> <td>#000008</td> <td>1 mark</td> </tr> <tr> <td>font-family:</td> <td>sans-serif</td> <td>1 mark</td> </tr> <tr> <td>font-size:</td> <td>14pt</td> <td>1 mark</td> </tr> <tr> <td>text-align:</td> <td>left</td> <td>1 mark</td> </tr> <tr> <td><b>body</b></td> <td></td> <td></td> </tr> <tr> <td>background-color:</td> <td>#99CCFF</td> <td>1 mark</td> </tr> </table>	<b>table</b>			border-style:	solid	1 mark	border-width:	2px	1 mark	border-collapse:	collapse	1 mark	<b>td</b>			border-style:	solid	1 mark	border-width:	1px	1 mark	<b>h1</b>			color:	#330066	1 mark	font-family:	"Helvetica Neue"	1 mark		, Calibri	1 mark		, sans-serif;	1 mark	font-size:	36pt	1 mark	text-align:	center	1 mark	<b>h2</b>			color:	#330099	1 mark	font-family:	Arial	1 mark	font-size:	18pt	1 mark	text-align:	right	1 mark	<b>p</b>			color:	#000008	1 mark	font-family:	sans-serif	1 mark	font-size:	14pt	1 mark	text-align:	left	1 mark	<b>body</b>			background-color:	#99CCFF	1 mark	[20]
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<b>Page 4</b>	<b>Mark Scheme</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>Cambridge IGCSE – May/June 2016</b>	<b>0417</b>	<b>31</b>

<b>No</b>	<b>Steps</b>	<b>Mark</b>
<b>4</b>	<p><b>Analyse the stylesheet started by the trainee and evaluate its contents.</b></p> <p>Syntax of style name and { } correct 3 from: 1 mark 1 mark each point, max 3 marks</p> <p>Number of styles missing from the stylesheet Style TH created but not required Syntax incorrect = should be a colon 4px not 4pixels</p> <p>max 4 marks total</p>	<b>[4]</b>
<b>5</b>	<p><b>Open the file j1631manta.htm using a suitable software package.</b></p> <p><b>Attach the stylesheet saved in step 3 to this web page.</b></p> <p>Stylesheet attached to web page 1 mark</p>	<b>[1]</b>
<b>6</b>	<p><b>Replace the text candidate name, Centre number, candidate number with your name, Centre number and candidate number.</b></p> <p>All correct 1 mark</p>	<b>[1]</b>
<b>7</b>	<p><b>Replace the text <i>Place logo here</i> with the image J1631logo.png</b></p> <p><b>Make sure that appropriate text is displayed if this image is not available.</b></p> <p>Correct insertion of logo in top left cell 1 mark Appropriate alternate text displayed 1 mark</p>	<b>[2]</b>
<b>8</b>	<p><b>Make the image 1631logo.png a hyperlink to send an email message to tmcp@cie.org.uk with a subject line Tell me more</b></p> <p>“mailto: 1 mark Anchor from 16313logo.png 1 mark tmcp@cie.org.uk 1 mark ?subject= 1 mark Tell%20me%20more” 1 mark</p>	<b>[5]</b>

Page 5	Mark Scheme	Syllabus	Paper
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No	Steps	Mark												
9	<p>Select the most appropriate images from those saved in Step 2 and use them to replace the following text:</p> <ul style="list-style-type: none"> <li>• <i>Place flag of Fiji here</i></li> <li>• <i>Place flag of Honduras here</i></li> <li>• <i>Place flag of Indonesia here</i></li> <li>• <i>Place flag of Maldives here.</i></li> </ul> <p>You may use the file 1631flags.pdf to help you.</p> <p>Resize each of these images to be 140 pixels wide, maintaining the aspect ratio.</p> <p>Either:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">4 correct insertions of image</td> <td style="text-align: right;">2 marks</td> </tr> <tr> <td style="padding-left: 20px;">3 correct insertions of image</td> <td style="text-align: right;">1 marks</td> </tr> <tr> <td style="padding-left: 20px;">0, 1 or 2 correct insertions of image</td> <td style="text-align: right;">0 marks</td> </tr> </table> <p>Plus:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">All 4 images resized to 140 pixels wide</td> <td style="text-align: right;">1 marks</td> </tr> </table>	4 correct insertions of image	2 marks	3 correct insertions of image	1 marks	0, 1 or 2 correct insertions of image	0 marks	All 4 images resized to 140 pixels wide	1 marks	[3]				
4 correct insertions of image	2 marks													
3 correct insertions of image	1 marks													
0, 1 or 2 correct insertions of image	0 marks													
All 4 images resized to 140 pixels wide	1 marks													
10	<p>Examine the file <i>1631manta1.tif</i>. Explain in your Evidence Document why this image is unsuitable for inclusion on the Maldives web page and what you could do to enable it to be used.</p> <p>4 from:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Image size is too large for efficient download</td> <td style="text-align: right;">1 mark</td> </tr> <tr> <td style="padding-left: 20px;">TIFF format cannot be used in all browsers</td> <td style="text-align: right;">1 mark</td> </tr> <tr> <td style="padding-left: 20px;">Image needs converting to Bitmap graphic</td> <td style="text-align: right;">1 mark</td> </tr> <tr> <td style="padding-left: 20px;">Save with lower image resolution</td> <td style="text-align: right;">1 mark</td> </tr> <tr> <td style="padding-left: 20px;">Image could be cropped</td> <td style="text-align: right;">1 mark</td> </tr> <tr> <td style="padding-left: 20px;">Image could be reduced in size</td> <td style="text-align: right;">1 mark</td> </tr> </table>	Image size is too large for efficient download	1 mark	TIFF format cannot be used in all browsers	1 mark	Image needs converting to Bitmap graphic	1 mark	Save with lower image resolution	1 mark	Image could be cropped	1 mark	Image could be reduced in size	1 mark	[4]
Image size is too large for efficient download	1 mark													
TIFF format cannot be used in all browsers	1 mark													
Image needs converting to Bitmap graphic	1 mark													
Save with lower image resolution	1 mark													
Image could be cropped	1 mark													
Image could be reduced in size	1 mark													
11	<p>Edit the file <i>1631manta1.tif</i> to make it suitable for a web page.</p> <p>Place this image in the web page <i>1631maldives.htm</i> so that it replaces the text <i>Place image 1631maldives here</i></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">File saved in .jpg, .jpeg or .png format</td> <td style="text-align: right;">1 mark</td> </tr> <tr> <td style="padding-left: 20px;">Image resolution reduced during saving</td> <td style="text-align: right;">1 mark</td> </tr> <tr> <td style="padding-left: 20px;">Image resized or cropped</td> <td style="text-align: right;">1 mark</td> </tr> <tr> <td style="padding-left: 20px;">Image placed in web page</td> <td style="text-align: right;">1 mark</td> </tr> </table>	File saved in .jpg, .jpeg or .png format	1 mark	Image resolution reduced during saving	1 mark	Image resized or cropped	1 mark	Image placed in web page	1 mark	[4]				
File saved in .jpg, .jpeg or .png format	1 mark													
Image resolution reduced during saving	1 mark													
Image resized or cropped	1 mark													
Image placed in web page	1 mark													
12	<p>Attach the stylesheet saved in step 3 to this web page.</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Stylesheet attached to web page</td> <td style="text-align: right;">1 mark</td> </tr> </table>	Stylesheet attached to web page	1 mark	[1]										
Stylesheet attached to web page	1 mark													
13	<p>Replace the text <i>candidate name, Centre number, candidate number</i> with your name, Centre number and candidate number.</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">All correct</td> <td style="text-align: right;">1 mark</td> </tr> </table>	All correct	1 mark	[1]										
All correct	1 mark													
<b>[Total: 48]</b>														

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### Task 3 – Spreadsheet

You are going to prepare a spreadsheet to manage the budgets and create charts comparing 6 global projects. Unless working in local currencies, display all currency values rounded to the nearest US dollar. The file **1631currency.csv** contains information about countries and their currencies. Make sure that you use the most efficient methods to do each task.

No	Steps	Mark
14	<p>Using a suitable software package, load the file 1631sheet.csv</p> <p>Save this file as a spreadsheet with the filename 1631_ and your Centre number and candidate number. For example, 1631_ZZ999_9999</p> <p>Insert 2 new rows above row 1.</p> <p>Correctly inserted rows 1 mark</p>	[1]
15	<p>In cell A1 enter the title TMCP Projects 2016</p> <p>In cell A2 enter your name, Centre number and candidate number.</p> <p>TMCP Projects 2016 entered in A1 and candidate details in cell A2 1 mark</p>	[1]
16	<p>Merge cells A1 to H1.</p> <p>Format this cell so that:</p> <ul style="list-style-type: none"> <li>text is centre aligned with a white, 36 point, sans-serif font</li> <li>it has a black background colour.</li> </ul> <p>A1 to H1 merged 1 mark            sans-serif centre aligned font 1 mark            white text, 36 point font 1 mark            black background colour 1 mark</p>	[4]
17	<p>In cell B4 enter a function to look up, from the external file 1631currency.csv the name of the currency for Honduras.</p> <p>=VLOOKUP() 1 mark            B3 as relative reference 1 mark            External file '1631currency.csv' 1 mark            Correct range !\$A\$2:\$C\$183 with absolute referencing 1 mark            ,3 1 mark            ,False or ,0 1 mark</p>	[6]
18	<p>In cell B5 enter a function to total the <i>Amount</i> of money in local currency for the Honduras project.</p> <p>=SUMIF() 1 mark            Correct range \$B\$9:\$B\$198 with absolute referencing 1 mark            ,B3 as relative reference 1 mark            Correct range \$C\$9:\$C\$198 with absolute referencing 1 mark</p>	[4]

Page 7	Mark Scheme	Syllabus	Paper
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No	Steps	Mark
19	<p>In cell B6 enter a formula to look up, from the external file 1631currency.csv the exchange rate from the local currency to US dollars for Honduras. Multiply this value by total for the local currency, rounded to the nearest dollar.</p> <p>=ROUND(                   ,0)                    1 mark  VLOOKUP(                    1 mark  B3,'1631currency.csv'!\$A\$2:\$D\$183                    1 mark  ,4, False (or ,0)                    1 mark  *B5                    1 mark</p>	[5]
20	<p>Replicate the formulae entered in steps 17, 18 and 19 for each project.</p> <p>All 3 formulae replicated                    1 mark</p>	[1]
21	<p>In cell H6 enter a function to add the total income in US dollars.</p> <p>=SUM(B6:G6)                    1 mark</p>	[1]
22	<p>Sort the list of individual donations into ascending order of <i>Project</i> then descending order of <i>Amount</i></p> <p>Sorted ascending by project                    1 mark  Then descending by Amount                    1 mark</p>	[2]
23	<p>Apply appropriate formatting to all cells in rows 3 to 6 inclusive.</p> <p>Formatting:  All currency values right-aligned                    1 mark  US Dollars. \$ with 0dp                    1 mark  Fiji, Bermuda, Jamaica \$ with 2dp                    1 mark  Maldivian Rufiyaa :Rf, MRf, MVR, . or /- with 2dp  Indonesian Rupiah: Rp or IDR with 2dp  Honduras Lempira: L L. or HNL with 2dp                    1 mark</p>	[4]
24	<p>Save your spreadsheet.</p> <p>Print only the cells A1 to I6 showing the formulae. Make sure:</p> <ul style="list-style-type: none"> <li>it is in landscape orientation</li> <li>the row and column headings are displayed</li> <li>the contents of these cells are fully visible.</li> </ul> <p>Landscape orientation and contents of A1 to I6 cells visible                    1 mark  Row and column headings displayed                    1 mark</p>	[2]
25	<p>Print the spreadsheet showing the values. Make sure the:</p> <ul style="list-style-type: none"> <li>printout fits on a single page wide</li> <li>contents of all cells are fully visible.</li> </ul> <p>Printout fits on single page wide and contents of all cells are fully visible                    1 mark</p>	[1]

<b>Page 8</b>	<b>Mark Scheme</b>	<b>Syllabus</b>	<b>Paper</b>
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<b>No</b>	<b>Steps</b>	<b>Mark</b>
<b>26</b>	<p><b>Extract only the data for Fiji and the Maldives, where the amount of the donation was more than 90</b></p> <p><b>Print only this extract showing the values. Make sure the:</b></p> <ul style="list-style-type: none"> <li>• <b>printout fits on a single page wide</b></li> <li>• <b>contents of all cells are fully visible.</b></li> </ul> <p>Extract for Fiji and Maldives <span style="float: right;">1 mark</span>  Amount &gt; \$90 <span style="float: right;">1 mark</span></p>	<b>[2]</b>
<b>27</b>	<b>Save and print your Evidence Document</b>	
		<b>[Total: 34]</b>



Page 9	Mark Scheme	Syllabus	Paper
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**Question 3**

table	border: solid 2px	1 1
	border-collapse: collapse	1
td	border: solid 1px	1 1
h1	color: #330066 font-family: "Helvetica Neue" , Calibri , sans-serif	1 1 1 1
	text-align: center font-size: 36pt	1 1
h2	color: #330099; font-family: Arial; font-size: 18pt	1 1 1
	text-align: right	1
p	color: #000008 font-family: sans-serif font-size: 14pt	1 1 1
	text-align: left	1
body	background-color: #99CCFF	1

```

1631
File Edit Format View Help
table {border-style: solid;
border-width: 2px;
border-collapse: collapse}
td {border-style: solid;
border-width: 1px}
h1 {color: #330066;
font-family: "Helvetica Neue", Calibri, sans-serif;
font-size: 36pt;
text-align: center}
h2 {color: #330099;
font-family: Arial;
font-size: 18pt;
text-align: right}
p {color: #000008;
font-family: sans-serif;
font-size: 14pt;
text-align: left}
body {background-color: #99CCFF}

```

**Question 4**

Syntax of style name and { } correct

3 from:

Number of styles missing from the stylesheet

Style TH created but not required

Syntax incorrect = should be a colon

4px not 4pixels

1 mark

1 mark each point, max 3 marks

Evaluation	Syntax of style name and { } correct	1
	3 from:	
	Styles missing from stylesheet	
	Style TH created but not required	
	Syntax incorrect = should be a colon	
	4px not 4pixels	

max 4 marks total

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Question 9

The screenshot shows a web browser window displaying the TMCP website. The browser's address bar shows 'D:\CIE\0417\2016 June'. The website has a blue background and contains the following elements:

- Logo:** TMCP logo in the top left cell.
- Title:** The Manta Conservation Project.
- Section: Background**
  - Text: "The Manta Conservation Project was set up to raise public awareness and help fund conservation projects of the plight of these gentle giants of the ocean. They are found in many diverse locations across the globe but for the next few weeks we will be raising both awareness and funds for projects in the following locations."
- Section: Support our project in:**
  - Fiji (with flag)
  - Honduras (with flag)
  - Indonesia (with flag)
  - Maldives (with flag)
- Section: Distribution**
  - Text: "Mantas are found worldwide, in tropical and temperate waters. This area includes South Africa, Madagascar, Somalia to Mozambique, Red Sea, Arabian Sea, bay of Bengal, Myanmar(Burma), Indonesia, Thailand, Malaysia, Philippines, Cambodia, Japan, northern Australia, Micronesia, New Caledonia, Fiji, New Guinea, Solomon Islands, Hawaii, southern California to northern Peru, North Carolina to Brazil, Senegal to Liberia and the Azores."
- Footer:** "Webpage last edited by A. Candidate, ZZ999, 9999" and a link "Click here to return to the top of the page".

Logo	TMCP logo in top left cell	1
	Text replaced with candidate details	1
Flags	Fiji, Honduras, Indonesia, Maldives	2
	4 correct for 2 marks, 3 for 1 mark	

<b>Page 11</b>	<b>Mark Scheme</b>	<b>Syllabus</b>	<b>Paper</b>
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Stylesheet	1631st(cand no).css attached	1
------------	------------------------------	---

```
<!DOCTYPE html>
<html><head><title>The Manta Conservation Project</title>
<link rel="stylesheet" type="text/css" href="1631st9999.css">
</head>
<body><a id="top"></a>
<table style="spacing:2px;padding:2px">
  <tr>
```

Hyperlink	Anchor from 1631logo.png	1
	href="mailto:	1
	tmcp@cie.org.uk	1
	?subject=	1
	Tell me more"	1

```
  <td style="width:150px"><a
href="mailto:tmcp@cie.org.uk?subject=Tell%20me%20more">
</a></td>
  <td style="width:440px" colspan=3>
    <h1>The Manta Conservation Project</h1></td></tr>
  <tr>
    <td colspan=4>
      <h1>Background</h1>
```

Logo	1631logo.png appropriate alt text	1
------	-----------------------------------	---

```
<p>The Manta Conservation Project was set up to raise public awareness and
help fund conservation projects of the plight of these gentle giants of the
ocean. They are found in many diverse locations across the globe but for
the next few weeks we will be raising both awareness and funds for projects
in the following locations:
</p></td></tr>
```

```
<tr>
  <td rowspan=6 colspan=2></td>
  <td colspan=2><h2>Support our project in:</h2></td></tr>
<tr>
  <td>
    <h2>Fiji</h2></td>
  <td></td></tr>
```

4 images added	All set to width=140px	1
----------------	------------------------	---

```
<tr>
  <td>
    <h2>Honduras</h2></td>
  <td></td></tr>
<tr>
  <td>
    <h2>Indonesia</h2></td>
  <td></td></tr>
<tr>
  <td>
    <h2>Maldives</h2></td>
  <td></td></tr>
<tr>
  <td colspan=2><p>Click on the flag to select/donate to the
project</p></td></tr>
```

<b>Page 12</b>	<b>Mark Scheme</b>	<b>Syllabus</b>	<b>Paper</b>
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```

<tr>
<tr><td colspan=4>
  <h1>Distribution</h1>
<p>Mantas are found worldwide, in tropical and temperate waters. This area
includes South Africa, Madagascar, Somalia to Mozambique, Red Sea, Arabian
Sea, bay of Bengal, Myanmar (Burma), Indonesia, Thailand, Malaysia,
Philippines, Cambodia, Japan, northern Australia, Micronesia, New
Caledonia, Fiji, New Guinea, Solomon Islands, Hawaii, southern California
to northern Peru, North Carolina to Brazil, Senegal to Liberia and the
Azores.
</p></td></tr>
  <tr><td colspan=4><p>Webpage last edited by A. Candidate, ZZ999,
9999</p>
    <p><a href="#top">Click here</a> to return to the top of the
page.</p></td></tr>
</table>
</body>
</html>

```

4 from:

- Image size is too large
- TIFF format not used in all web browsers
- Needs converting to Bitmap graphic
- Save with lower image resolution
- Image could be cropped
- Image could be reduced in size

Max 4

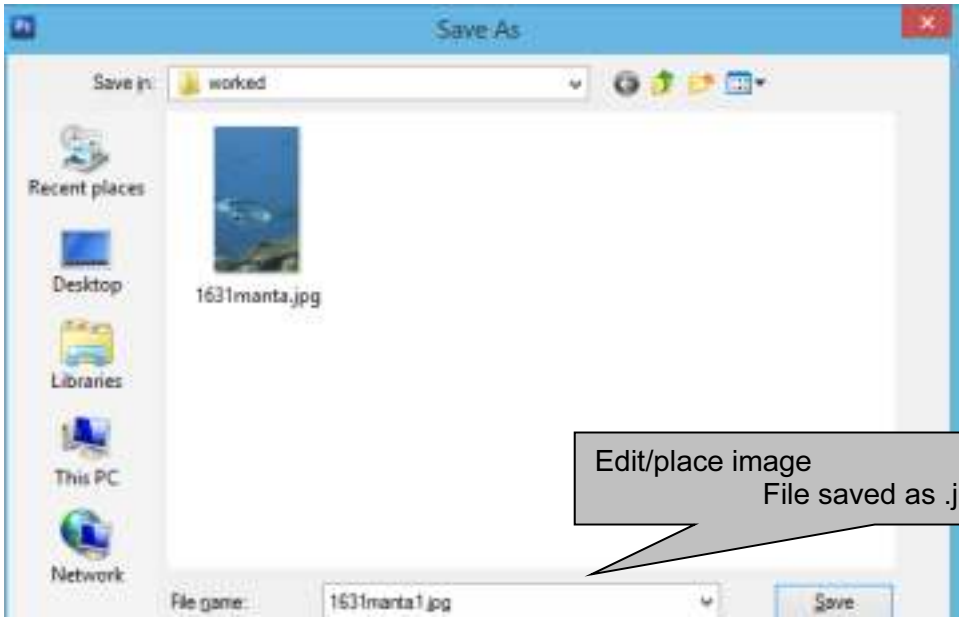
**Question 10**

Answers containing Max [4] from:

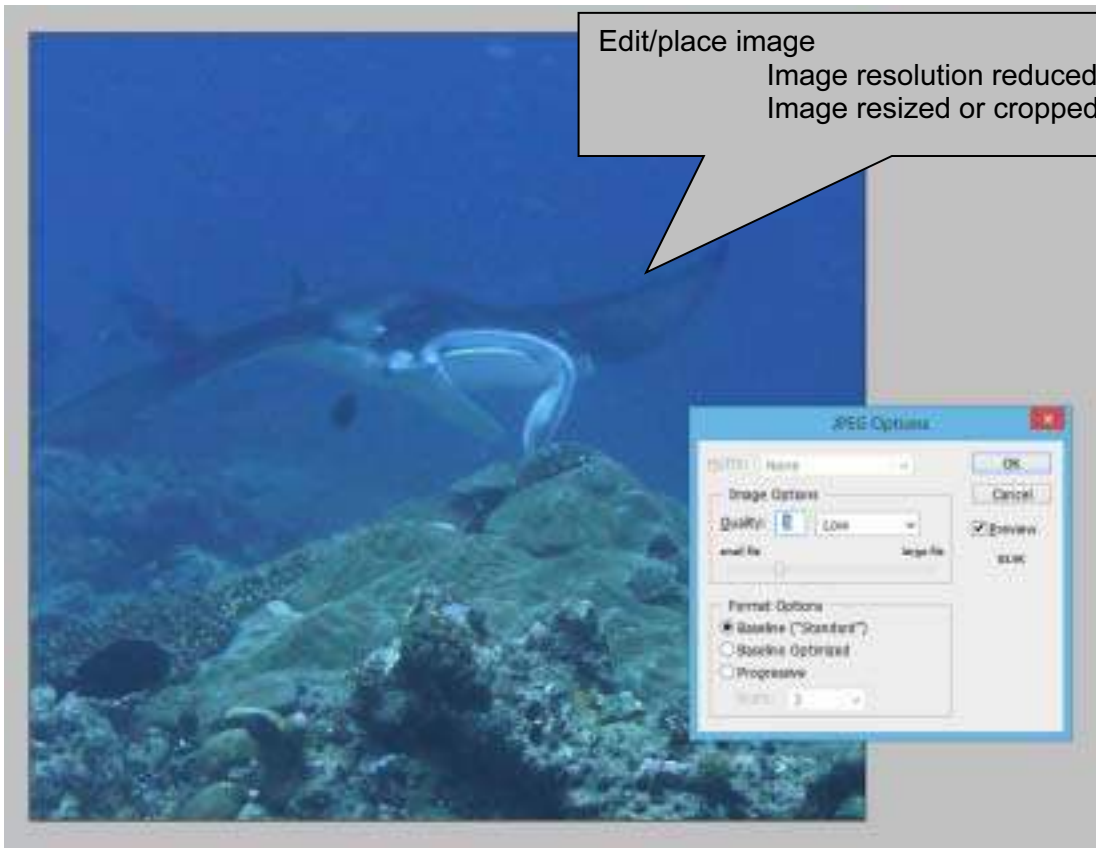
- Image size is too large for efficient download
- TIFF format cannot be used in all browsers
- Image needs converting to Bitmap graphic
- Save with lower image resolution
- Image could be cropped
- Image could be reduced in size

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Question 11

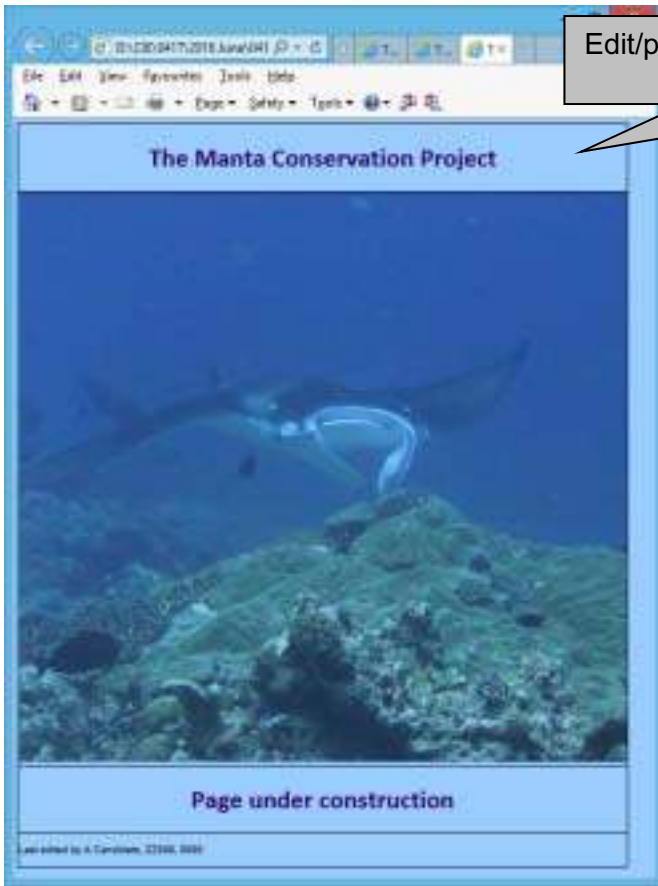


Edit/place image  
File saved as .jpg, .jpeg or .png 1



Edit/place image  
Image resolution reduced during save 1  
Image resized or cropped 1

<b>Page 14</b>	<b>Mark Scheme</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>Cambridge IGCSE – May/June 2016</b>	<b>0417</b>	<b>31</b>



Edit/place image  
Image placed in web page 1

Attach stylesheet  
Stylesheet attached to Maldives page 1

```
<!DOCTYPE html>
<html><head><title>The Manta Conservation Project</title>
<link rel="stylesheet" href="1631st9999.css">
</head>
<body>
<table style="spacing:2px;padding:2px;width:640px">
  <tr>
    <td><h1>The Manta Conservation Project</h1></td></tr>
  <tr>
    <td></td></tr>
  <tr>
    <td><h1>Page under construction</h1></td></tr>
  <tr>
    <td><p>Last edited by A Candidate, ZZ999, 9999</p></td></tr>
</table>
</body>
</html>
```

Candidate details  
Text replaced with candidate details 1

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	A	B
1		
2	A Candidate, ZZ999, 9999	
3	Project	Honduras
4	Currency	=VLOOKUP(B3,'1631currency.csv'!\$A\$2:\$C\$183,3,0)
5	Local	=SUMIF(\$B\$9:\$B\$198,B3,\$C\$9:\$C\$198)
6	US Dollars	=ROUND(VLOOKUP(B3,'1631currency.csv'!\$A\$2:\$D\$183,4,0)*B5,0)

Currency VLOOKUP used 1  
 Correct relative lookup reference – B3 1  
 External file '1631currency.csv' 1  
 Range !\$A\$2:\$C\$183 with abs ref 1  
 Correct return column 3 1  
 ,False for correct only 1

Amount total  
 SUMIF() 1  
 Range \$B\$9:\$B\$198 with abs ref 1  
 ,B3 as relative reference 1  
 Range \$C\$9:\$C\$198 with abs ref 1

Exchange rate  
 =ROUND( ,0) 1  
 VLOOKUP() 1  
 B3,'1631currency.csv'!\$A\$2:\$D\$183 1  
 4, False (or ,0) 1  
 \*B5 1

	C	D
1		<b>TMCP Pro</b>
2		
3	Indonesia	Maldives
4	=VLOOKUP(C3,'1631currency.csv'!\$A\$2:\$C\$183,3,0)	=VLOOKUP(D3,'1631currency.csv'!\$A\$2:\$C\$183,3,0)
5	=SUMIF(\$B\$9:\$B\$198,C3,\$C\$9:\$C\$198)	=SUMIF(\$B\$9:\$B\$198,D3,\$C\$9:\$C\$198)
6	=ROUND(VLOOKUP(C3,'1631currency.csv'!\$A\$2:\$D\$183,4,0)*C5,0)	=ROUND(VLOOKUP(D3,'1631currency.csv'!\$A\$2:\$D\$183,4,0)*D5,0)

Page 16	Mark Scheme	Syllabus	Paper
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	E	F
1	<b>Subjects 2016</b>	
2		
3	Fiji	Bermuda
4	=VLOOKUP(E3,'1631currency.csv'!\$A\$2:\$C\$183,3,0)	=VLOOKUP(F3,'1631currency.csv'!\$A\$2:\$C\$183,3,0)
5	=SUMIF(\$B\$9:\$B\$198,E3,\$C\$9:\$C\$198)	=SUMIF(\$B\$9:\$B\$198,F3,\$C\$9:\$C\$198)
6	=ROUND(VLOOKUP(E3,'1631currency.csv'!\$A\$2:\$D\$183,4,0)*E5,0)	=ROUND(VLOOKUP(F3,'1631currency.csv'!\$A\$2:\$D\$183,4,0)*F5,0)

	G	H	I
1			
2			
3	Jamaica	Total income	
4	=VLOOKUP(G3,'1631currency.csv'!\$A\$2:\$C\$183,3,0)		
5	=SUMIF(\$B\$9:\$B\$198,G3,\$C\$9:\$C\$198)		
6	=ROUND(VLOOKUP(G3,'1631currency.csv'!\$A\$2:\$D\$183,4,0)*G5,0)	=SUM(B6:G6)	

Total income=SUM(B6:G6) 1

Printout	Landscape A1-I6 fully visible	1
	Row and column headings displayed	1
Replication	All 3 formulae	1



- Rows inserted 2 rows above row 1 1
- Text inserted TMCP Projects 2016 in A1 and C and details in A2 1
- Row 1 A1 to H1 merged sans-serif centre aligned font white text, 36 point font black background colour 1

	A	B						
1	<b>TMCP Projects 2016</b>							
2	A Candidate, Z2999, 9999							
3	Project	Honduras	Indonesia	Maldives	Fiji	Bermuda	Jamaica	Total income
4	Currency	Lempira	Rupiah	Rufiyaa	Dollar	Dollar	Dollar	
5	Local	L 1,699.38	Rp1,399.38	2,170.29	\$1,465.07	\$1,777.34	\$1,348.19	
6	USDollars	\$35,615	\$16,204,680	\$33,227	\$2,660	\$1,777	\$151,197	\$16,429,156
7								
8	Donations	Project	Amount					
9		55: Bermuda	95.12					
10		67: Bermuda	94.05					
11		49: Bermuda	92.62					
12		129: Bermuda	92.14					
13		168: Bermuda	91.23					
14		127: Bermuda	89.91					
15		131: Bermuda	86.94					
16		113: Bermuda	84.53					
17		34: Bermuda	79.85					
18		76: Bermuda	74.07					
19		48: Bermuda	73.32					
20		82: Bermuda	73.3					
21		153: Bermuda	69.19					
22		65: Bermuda	66.55					
23		88: Bermuda	63.17					
24		180: Bermuda	57.64					
25		38: Bermuda	51.89					
26		63: Bermuda	51.57					
27		5: Bermuda	42.13					
28		175: Bermuda	41.76					
29		182: Bermuda	39.45					
30		181: Bermuda	38.42					
31		178: Bermuda	35.46					
32		185: Bermuda	33.26					
33		126: Bermuda	29.92					
34		8: Bermuda	27.48					
35		111: Bermuda	26.47					
36		125: Bermuda	21.12					
37		148: Bermuda	18.41					
38		97: Bermuda	15.19					
39		83: Bermuda	14.4					
40		58: Bermuda	6.78					
41		162: Fiji	95.55					
42		31: Fiji	93.12					
43		75: Fiji	90.55					
44		119: Fiji	87.43					
45		14: Fiji	82.62					
46		106: Fiji	76.96					
47		84: Fiji	75.44					
48		155: Fiji	71.45					
49		86: Fiji	70.91					
50		64: Fiji	69.34					
51		18: Fiji	68.7					
52		172: Fiji	65.08					
53		36: Fiji	58.96					
54		50: Fiji	56.75					
55		115: Fiji	50.2					

- Sort Sorted ascending by Project 1
- Then descending by Amount 1
- Formatting All currency values right-aligned 1
- US Dollars. \$ with 0dp 1
- 6 local currencies to 2 dp 1
- Correct currencies for 6 countries 1
- Single page wide and fully visible 1

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	A	B	C	D	E	F	G	H
56		96: Fiji	47.38					
57		145: Fiji	44.93					
58		94: Fiji	38.07					
59		59: Fiji	35.64					
60		3: Fiji	34.38					
61		73: Fiji	29.72					
62		160: Fiji	28.01					
63		13: Fiji	22.42					
64		118: Fiji	22.26					
65		77: Fiji	15.39					
66		4: Fiji	12.14					
67		101: Fiji	9.76					
68		121: Fiji	7.38					
69		122: Fiji	3.53					
70		15: Honduras	98.06					
71		26: Honduras	90.56					
72		29: Honduras	89.26					
73		21: Honduras	88.02					
74		112: Honduras	85.01					
75		40: Honduras	84.26					
76		110: Honduras	84.23					
77		139: Honduras	78.62					
78		167: Honduras	75.96					
79		158: Honduras	72.51					
80		163: Honduras	66.21					
81		187: Honduras	66.13					
82		132: Honduras	65.9					
83		151: Honduras	64.01					
84		32: Honduras	62.73					
85		150: Honduras	57.64					
86		41: Honduras	54.43					
87		54: Honduras	48.79					
88		25: Honduras	45.74					
89		184: Honduras	43.15					
90		109: Honduras	42.89					
91		81: Honduras	42.77					
92		91: Honduras	42.05					
93		20: Honduras	37.21					
94		78: Honduras	37.14					
95		136: Honduras	31.49					
96		60: Honduras	18.87					
97		116: Honduras	12.94					
98		47: Honduras	7.34					
99		9: Honduras	3.85					
100		85: Honduras	1.61					
101		44: Indonesia	99.34					
102		95: Indonesia	89.56					
103		141: Indonesia	87.01					
104		46: Indonesia	84.84					
105		134: Indonesia	83.25					
106		56: Indonesia	82.55					
107		189: Indonesia	80.25					
108		171: Indonesia	77.96					
109		103: Indonesia	72.59					
110		173: Indonesia	71.97					
111		72: Indonesia	70.35					
112		159: Indonesia	66.02					

Page 19	Mark Scheme	Syllabus	Paper
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	A	B	C	D	E	F	G	H
113	51	Indonesia	61.67					
114	102	Indonesia	58.23					
115	177	Indonesia	52.95					
116	144	Indonesia	47.04					
117	43	Indonesia	30.26					
118	176	Indonesia	29.19					
119	138	Indonesia	28.15					
120	166	Indonesia	21.92					
121	104	Indonesia	21.04					
122	137	Indonesia	20.15					
123	165	Indonesia	19.27					
124	79	Indonesia	19.21					
125	105	Indonesia	16.32					
126	123	Indonesia	8.29					
127	11	Jamaica	99.2					
128	130	Jamaica	95.06					
129	87	Jamaica	91.43					
130	186	Jamaica	91.42					
131	133	Jamaica	83.69					
132	114	Jamaica	83.6					
133	147	Jamaica	83					
134	90	Jamaica	74.46					
135	93	Jamaica	65.3					
136	27	Jamaica	59.49					
137	35	Jamaica	58.2					
138	179	Jamaica	48.3					
139	164	Jamaica	46.3					
140	124	Jamaica	46.26					
141	154	Jamaica	42.2					
142	52	Jamaica	38.31					
143	71	Jamaica	38.27					
144	28	Jamaica	34.23					
145	183	Jamaica	28.2					
146	12	Jamaica	26.39					
147	117	Jamaica	19.35					
148	80	Jamaica	14.36					
149	6	Jamaica	13.94					
150	174	Jamaica	12.67					
151	22	Jamaica	11.81					
152	1	Jamaica	9.91					
153	66	Jamaica	9.52					
154	23	Jamaica	8.29					
155	142	Jamaica	8.06					
156	135	Jamaica	6.97					
157	107	Maldives	99.23					
158	100	Maldives	97.38					
159	190	Maldives	92.03					
160	62	Maldives	91.08					
161	92	Maldives	90.1					
162	152	Maldives	90					
163	2	Maldives	88.37					
164	53	Maldives	87.48					
165	140	Maldives	81.55					
166	169	Maldives	80.88					
167	45	Maldives	78.9					
168	143	Maldives	77.81					
169	24	Maldives	75.25					

	A	B	C	D	E	F	G	H
170		7:Maldives	74.81					
171		108:Maldives	70.87					
172		170:Maldives	70.65					
173		98:Maldives	66.12					
174		69:Maldives	65.14					
175		120:Maldives	63.87					
176		99:Maldives	52.1					
177		68:Maldives	46.66					
178		128:Maldives	45.37					
179		33:Maldives	43.54					
180		16:Maldives	42.27					
181		10:Maldives	41.87					
182		161:Maldives	40.41					
183		70:Maldives	39.19					
184		156:Maldives	38.12					
185		74:Maldives	35.65					
186		19:Maldives	25.71					
187		61:Maldives	23.64					
188		42:Maldives	22.43					
189		89:Maldives	20.75					
190		188:Maldives	19.35					
191		17:Maldives	16.59					
192		157:Maldives	15.78					
193		37:Maldives	15.77					
194		146:Maldives	12.74					
195		149:Maldives	12.42					
196		39:Maldives	9.56					
197		30:Maldives	4.5					
198		57:Maldives	4.35					

# TMCP Projects 2016

A Candidate,  
ZZ999, 9999

Project	Honduras	Indonesia	Maldives	Fiji	Bermuda	Jamaica	Total income
Currency	Lempira	Rupiah	Rufiyaa	Dollar	Dollar	Dollar	
Local	L. 1,699.38	Rp1,399.38	2,170.29	\$1,465.07	\$1,777.34	\$1,348.19	
US Dollars	\$35,615	\$16,204,680	\$33,227	\$2,660	\$1,777	\$151,197	\$16,429,156

Donations	Project	Amount
162	Fiji	95.55
31	Fiji	93.12
75	Fiji	90.55
107	Maldives	99.23
100	Maldives	97.38
190	Maldives	92.03
62	Maldives	91.08
92	Maldives	90.1

Extract

Fiji and Maldives Amount > 90	1 1
----------------------------------	--------