



Mark Scheme (Results)

Summer 2019

Pearson Edexcel International GCSE
In Information and Communication Technology
(ICT)

(4IT1) Paper 02

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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.


TASK		Marks												
A1a	Logo includes: 1. image of scuba diver with background removed (1) 2. company name or <i>CS Scuba</i> (1) Breathing tube must not be the same colour as the background Ignore case	2												
A1b	<p><i>Explain one reason why a bitmap image would not be appropriate to be used for a logo.</i></p> Bitmap images are unsuitable if the logo is made larger (1) as they would become pixelated (1) OR Can increase file size (1) which would increase download time / processing / take up more storage space (1) OR When logo is made smaller (1) could lose detail (1)	2												
Total for Task A1		4												
A2a	<p><i>Data entry form:</i></p> 1. Match the house style (1) – bold and italics on headings and logo top left 2. Suitable title – related to destination (1) 3. All field labels centre aligned (1)	3												
A2b	<p><i>Data entry via form:</i></p> <table border="1" data-bbox="261 1196 983 1447"> <tbody> <tr> <td>Holiday ID</td> <td>SA1</td> </tr> <tr> <td>Country</td> <td>South Africa</td> </tr> <tr> <td>Region</td> <td>Mabibi</td> </tr> <tr> <td>Dive boat company</td> <td>Explorer</td> </tr> <tr> <td>Number of days</td> <td>7</td> </tr> <tr> <td>Liveaboard or day boat</td> <td>Liveaboard</td> </tr> </tbody> </table> <p>Award 2 marks for 6 correct entries Award 1 mark for 3, 4 or 5 correct entries Award no marks for 0, 1 or 2 correct entries</p> <p>If no data entry form or shows incorrect data, award from the table</p>	Holiday ID	SA1	Country	South Africa	Region	Mabibi	Dive boat company	Explorer	Number of days	7	Liveaboard or day boat	Liveaboard	2
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Country	South Africa													
Region	Mabibi													
Dive boat company	Explorer													
Number of days	7													
Liveaboard or day boat	Liveaboard													
A2c	Sort alphabetical order of Country: Egypt down to Wales	1												

<p>A2d</p>	<p>Query design:</p> <table border="1" data-bbox="268 197 1302 320"> <tr> <td>Holiday ID</td> <td>Region</td> <td>Country</td> <td>Dive boat company</td> <td>Number of days</td> <td>Liveaboard or day bo</td> </tr> <tr> <td>Destinations</td> <td>Destinations</td> <td>Destinations</td> <td>Destinations</td> <td>Destinations</td> <td>Destinations</td> </tr> <tr> <td>Descending</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Like "**Blue Water**"</td> <td>=7</td> <td>"liveaboard"</td> </tr> </table> <p>Correct 'criteria' row shown in design view:</p> <ul style="list-style-type: none"> • Award 2 marks for all 3 correct criteria • Award 1 mark for 2 correct criteria • Award no marks for 0 or 1 correct criteria <p>Result of Query:</p> <table border="1" data-bbox="268 600 1023 752"> <thead> <tr> <th>Holiday ID</th> <th>Region</th> <th>Country</th> </tr> </thead> <tbody> <tr> <td>MD3</td> <td>Ari Atoll</td> <td>Maldives</td> </tr> <tr> <td>EG2</td> <td>Hurghada</td> <td>Egypt</td> </tr> </tbody> </table> <p>3 correct fields 'shown' – only Holiday ID, Region and Country – in any order (1)</p> <p>4. fields displayed in the correct order - Holiday ID, Region and Country (1)</p> <p>5. Holiday ID field sorted in descending order (1)</p>	Holiday ID	Region	Country	Dive boat company	Number of days	Liveaboard or day bo	Destinations	Destinations	Destinations	Destinations	Destinations	Destinations	Descending						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				Like "**Blue Water**"	=7	"liveaboard"	Holiday ID	Region	Country	MD3	Ari Atoll	Maldives	EG2	Hurghada	Egypt	<p>2</p> <p>3</p>
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<p>A2e</p>	<p>Results of query:</p> <table border="1" data-bbox="268 1037 1015 1238"> <thead> <tr> <th>Client ID</th> <th>Contact email</th> <th>Client name</th> </tr> </thead> <tbody> <tr> <td>SHI07</td> <td>shintyn@fortran.net</td> <td>Natalie Shinty</td> </tr> <tr> <td>PAS09</td> <td>pascalw@talk.org</td> <td>Wendy Pascal</td> </tr> <tr> <td>JON25</td> <td>jonesb@virgin.net</td> <td>Brien Jones</td> </tr> <tr> <td>BRA25</td> <td>bradleyl@chat.com</td> <td>Laura Bradley</td> </tr> </tbody> </table> <p>The report must:</p> <ol style="list-style-type: none"> 1. have a suitable title - include reference to Thailand, Philippines and Medical Form not completed (1) 2. include the logo - positioned top left of the report (1) 3. display only the correct 4 records (1) 4. show only CLIENT ID, CONTACT EMAIL and CLIENT NAME - in that order (1) 5. not have any truncation (1) 6. be in the correct order (descending order of CLIENT ID) (1) 7. include field headings formatted to bold and italics (1) 8. use correct spelling and initial capitalisation of report title (1) <p>Do not allow marking point 5 (truncation) if it is not a database report</p>	Client ID	Contact email	Client name	SHI07	shintyn@fortran.net	Natalie Shinty	PAS09	pascalw@talk.org	Wendy Pascal	JON25	jonesb@virgin.net	Brien Jones	BRA25	bradleyl@chat.com	Laura Bradley	<p>8</p>																								
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<p>A2fi</p>	<p>State what is meant by the term primary key</p> <p>A unique identifier / uniquely identifies each record in a table</p>	<p>1</p>																																							
<p>A2fii</p>	<p>State what is meant by the term foreign key</p> <p>A primary key in another table</p> <p>Do not accept 'secondary key'</p>	<p>1</p>																																							
<p>A2fiii</p>	<p>Identify the relationship between the DESTINATIONS table and the CLIENTS table</p> <p>One to many</p>	<p>1</p>																																							

A2fiv	<p>Explain one advantage of using a relational database rather than a single table.</p> <p>To avoid repeated data / data redundancy (1) which can make a file too large / save on space / avoids mistakes / changes only need to be made once (1)</p>	2																														
	Total for Task A2	24																														
A3ai	<p>Marks in bold, italics can only be awarded from the HTML</p> <p>The HTML code must include:</p> <ol style="list-style-type: none"> 1. background colour – Dark Sea Green (#8FBC8F) – on any page (1) 2. text colour for Introductory Text – Midnight Blue (#191970) (1) 3. company name ‘Celtic Springs Scuba’ set to <h1> </h1> (1) 4. page title - bold , italics <i> (1) 5. two relevant images on the home page (1) 6. square images on at least one page (1) 7. images of similar size on all pages (1) 8. images are vertically aligned (left, right or centre aligned) on at least one page (1) 9. an image link (includes the correct protocol, e.g. http://www.csscuba.net) (1) 10. include any section of text set as <p> (1) 11. email address and telephone number (01632 444675) (1) 12. email link: mailto:simon@csscuba.net (1) 13. the home page consistent with the design structure (1) – refer to QP 	13																														
A3aii	<p>Webpage including table:</p> <ol style="list-style-type: none"> 1. webpage title – Courses (1) 2. table includes 5 columns (1) 3. table includes 6 rows (1) 4. correct headings and values (1) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Course</th> <th style="text-align: center;">No of classroom Sessions</th> <th style="text-align: center;">No of pool sessions</th> <th style="text-align: center;">No of dives</th> <th style="text-align: center;">Depth (m)</th> </tr> </thead> <tbody> <tr> <td>Open Water (OW)</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">4</td> <td style="text-align: center;">18</td> </tr> <tr> <td>Advanced OW</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> <td style="text-align: center;">5</td> <td style="text-align: center;">30</td> </tr> <tr> <td>Wreck Diving</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> <td style="text-align: center;">4</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Deep Diving</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> <td style="text-align: center;">4</td> <td style="text-align: center;">40</td> </tr> <tr> <td>Dry Suit</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">-</td> </tr> </tbody> </table> <p>Do not penalise for incorrect spelling or case Only award marks 2 and 3 if it is clearly a table</p>	Course	No of classroom Sessions	No of pool sessions	No of dives	Depth (m)	Open Water (OW)	2	2	4	18	Advanced OW	2	0	5	30	Wreck Diving	1	0	4	-	Deep Diving	1	0	4	40	Dry Suit	1	1	2	-	4
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Dry Suit	1	1	2	-																												
A3aiii	HTML - functional link from Home page to Courses page / Courses page to Home page	1																														
A3b	<p>HTML changes:</p> <ol style="list-style-type: none"> 1. text colour for Introductory Text – black (#000000) (1) 2. page title – underline <u> (1) <p>Award mark point 2 if only visible from browser view</p>	2																														
A3c	<p>State and justify one improvement you would make to your website.</p> <p>Candidates need to state an improvement they would make (1) with a suitable justification produced (1)</p>	2																														

	<p>For example, I would add links to social networking site (1) so that the user can access extra related content (1)</p> <p>OR</p> <p>I would use ALT text/change the background to white (1) to improve accessibility/to create a suitable contrast (1)</p> <p>Do not accept generic improvements such as 'I would change the colours to make it more eye catching'/easier to read</p>	
	Total mark for Task A3	22

B1biii	<p>Formula view Replicate functions and/or formulae for all other courses for any ONE column</p>	1																																																																						
B1biv	<p>IF statement to display Free kit bag for all courses with a Total Cost of more than £400</p> <p>=IF(J3>400, "Free kit bag", "")</p> <p>Allow =IF(J3<=400,"","Free kit bag")</p> <p>Do not accept anything other than ""</p>	1 1																																																																						
B1bv	<p>=MAX(G3:G16) =MIN(G3:G16)</p>	1 1																																																																						
B1c	<p>Data view</p> <ol style="list-style-type: none"> 1. Currency showing £ with 2dp (only columns C, E, H, I, J) (1) 2. Headings wrapped to use space efficiently (1) 3. All data visible – cell contents, column headings (1) 4. Gridlines/borders and footer displayed when printed (1) <p>Award marks on the filter printout</p>	4																																																																						
Total marks for Task B1		22																																																																						
B2	<p>Filtered to show those courses where a free kit bag is offered</p> <table border="1" data-bbox="261 1196 1230 1361"> <thead> <tr> <th colspan="10" style="background-color: black; color: white; text-align: center;">Diving Courses</th> </tr> </thead> <tbody> <tr> <td>Open Water</td> <td>C</td> <td>£400.00</td> <td>10%</td> <td>£360.00</td> <td>2</td> <td>4</td> <td>36</td> <td>£20.00</td> <td>£416.00 Free kit bag</td> </tr> <tr> <td>Dive Master</td> <td>F</td> <td>£650.00</td> <td>15%</td> <td>£552.50</td> <td>20</td> <td>40</td> <td>360</td> <td>£200.00</td> <td>£1,112.50 Free kit bag</td> </tr> <tr> <td>Assistant Instructor</td> <td>C</td> <td>£400.00</td> <td>10%</td> <td>£360.00</td> <td>2</td> <td>2</td> <td>36</td> <td>£10.00</td> <td>£406.00 Free kit bag</td> </tr> <tr> <td>OW Scuba Instructor</td> <td>D</td> <td>£500.00</td> <td>10%</td> <td>£450.00</td> <td>2</td> <td>4</td> <td>36</td> <td>£20.00</td> <td>£506.00 Free kit bag</td> </tr> <tr> <td>Master Scuba Diver Trainer</td> <td>D</td> <td>£500.00</td> <td>10%</td> <td>£450.00</td> <td>0</td> <td>0</td> <td>0</td> <td>£0.00</td> <td>£450.00 Free kit bag</td> </tr> <tr> <td>Master Instructor</td> <td>E</td> <td>£600.00</td> <td>15%</td> <td>£510.00</td> <td>2</td> <td>2</td> <td>36</td> <td>£10.00</td> <td>£556.00 Free kit bag</td> </tr> </tbody> </table>	Diving Courses										Open Water	C	£400.00	10%	£360.00	2	4	36	£20.00	£416.00 Free kit bag	Dive Master	F	£650.00	15%	£552.50	20	40	360	£200.00	£1,112.50 Free kit bag	Assistant Instructor	C	£400.00	10%	£360.00	2	2	36	£10.00	£406.00 Free kit bag	OW Scuba Instructor	D	£500.00	10%	£450.00	2	4	36	£20.00	£506.00 Free kit bag	Master Scuba Diver Trainer	D	£500.00	10%	£450.00	0	0	0	£0.00	£450.00 Free kit bag	Master Instructor	E	£600.00	15%	£510.00	2	2	36	£10.00	£556.00 Free kit bag	1
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<p>B3a</p>	<p>Suitable chart to display:</p> <ol style="list-style-type: none"> 1. Cost references A to F with correct values (1) 2. Title (e.g. Reference to discount) (1) 3. Appropriate X and Y labels (1) <p>Award marking point 2 if a pie chart has been included</p> 	<p>3</p>																																																
<p>B3b</p>	<p>Display course title, total cost and notes (A, J, K only) Award this mark from the filter view if this printout is not included</p> <table border="1" data-bbox="261 860 652 1234"> <thead> <tr> <th colspan="3">Diving Courses</th> </tr> <tr> <th>Course title</th> <th>Total cost</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Open Water</td> <td>£416.00</td> <td>Free kit bag</td> </tr> <tr> <td>Advanced Open Water</td> <td>£346.00</td> <td></td> </tr> <tr> <td>Peak Performance Buoyancy</td> <td>£228.00</td> <td></td> </tr> <tr> <td>Dry suit</td> <td>£228.00</td> <td></td> </tr> <tr> <td>Deep Diving</td> <td>£336.00</td> <td></td> </tr> <tr> <td>Wreck</td> <td>£341.00</td> <td></td> </tr> <tr> <td>First Aid</td> <td>£218.00</td> <td></td> </tr> <tr> <td>Rescue</td> <td>£359.00</td> <td></td> </tr> <tr> <td>Dive Master</td> <td>£1,112.50</td> <td>Free kit bag</td> </tr> <tr> <td>Assistant Instructor</td> <td>£406.00</td> <td>Free kit bag</td> </tr> <tr> <td>OW Scuba Instructor</td> <td>£506.00</td> <td>Free kit bag</td> </tr> <tr> <td>Master Scuba Diver Trainer</td> <td>£450.00</td> <td>Free kit bag</td> </tr> <tr> <td>Staff Instructor</td> <td>£388.00</td> <td></td> </tr> <tr> <td>Master Instructor</td> <td>£556.00</td> <td>Free kit bag</td> </tr> </tbody> </table>	Diving Courses			Course title	Total cost	Notes	Open Water	£416.00	Free kit bag	Advanced Open Water	£346.00		Peak Performance Buoyancy	£228.00		Dry suit	£228.00		Deep Diving	£336.00		Wreck	£341.00		First Aid	£218.00		Rescue	£359.00		Dive Master	£1,112.50	Free kit bag	Assistant Instructor	£406.00	Free kit bag	OW Scuba Instructor	£506.00	Free kit bag	Master Scuba Diver Trainer	£450.00	Free kit bag	Staff Instructor	£388.00		Master Instructor	£556.00	Free kit bag	<p>1</p>
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<p>B3ci</p>	<p><i>Explain one advantage of using named ranges in a spreadsheet.</i> An explanation such as: The range details are stored / more human readable (1) so you do not need to remember the range address (1) OR Absolute referencing is not necessary when replicating (1) because named ranges remain constant (1)</p>	<p>2</p>																																																
<p>B3cii</p>	<p><i>Explain one advantage of using lookup tables in a spreadsheet.</i> An explanation such as: Tables of values don't need to be repeated on the spreadsheet (1) so makes the content more manageable / efficient (1) OR Values only need editing at a single point (1) which reduces errors / keeps data consistent</p>	<p>2</p>																																																
<p style="text-align: right;">Total for Task B3</p>		<p>8</p>																																																

B4a	<p>Include a series of 4 slides:</p> <ol style="list-style-type: none"> 1. Follow house style (logo top left, bold and italic headings) on all slides (1) 2. Background – any pale colour other than white – on all slides (1) 3. Any one slide includes suitable text (1) 4. Any one slide includes at least one suitable image (1) 5. Slide 1 includes a timed (30 seconds) and automatic transition between any slides (1) 6. Slide 2 includes staff roles and names (1) 7. Slide 2 includes an animation on any staff name (1) <p><i>Mark points 8, 9 and 10:</i> Award one mark for each feature up to a maximum of 3 marks for fitness for purpose, e.g:</p> <ul style="list-style-type: none"> • images not distorted/truncated and do not obscure text • bullets rather than paragraphs • appropriate font size • hierarchy of information (slide headings, subheadings) • use of contrast • appropriate layout (placement of images and text) 	10
B4b	4 slides on one A4 sheet (handouts copy)	1
B4ci	<p>Hyperlink:</p> <ol style="list-style-type: none"> 1. included on final slide that links to anywhere (1) 2. uses appropriate text (e.g Spreadsheet/Task B1) / image (1) 3. links to TASK B1 spreadsheet (1) 	3
B4cii	Action button on the final slide (1) to Slide 1 (1)	2
B4ciii	<p><i>Explain one benefit to Simon of using a master slide for his presentation.</i> A consistent look to all slides (1) so the company portrays a professional look (1)</p> <p>OR Quicker to make changes to slides (1) as only the master slide needs to be changed / not all slides need to be changed (1)</p> <p>OR Quicker to add new slide (1) as all basic formatting has been performed (1)</p>	2
B4civ	<p><i>State one reason why it is important to change the default filenames when saving files.</i> Any one from:</p> <ul style="list-style-type: none"> • to make filenames relevant to the content • default / blank files are not filled with content • supports version control • helps user find files 	1
Total marks for Task B4		19

