Pearson Edexcel

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.

<table>
<tr><th>TASK</th><th></th><th>Marks</th></tr>
<tr><td>A1a</td><td>Logo includes:
1. image of scuba diver with background removed (1)
2. company name or CS Scuba (1)

Breathing tube must not be the same colour as the background
Ignore case</td><td>2</td></tr>
<tr><td>A1b</td><td>Explain one reason why a bitmap image would not be appropriate to be used for a logo.

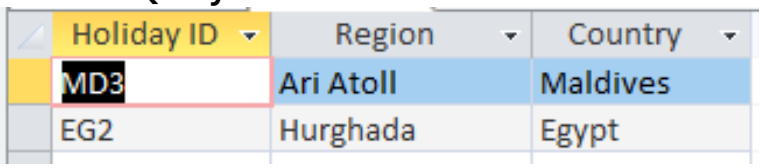
Bitmap images are unsuitable if the logo is made larger (1) as they would become pixelated (1)
OR
Can increase file size (1) which would increase download time / processing / take up more storage space (1)
OR
When logo is made smaller (1) could lose detail (1)</td><td>2</td></tr>
<tr><td></td><td>Total for Task A1</td><td>4</td></tr>
<tr><td>A2a</td><td>Data entry form:
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)</td><td>3</td></tr>
<tr><td>A2b</td><td>Data entry via form:

<table><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></table>
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

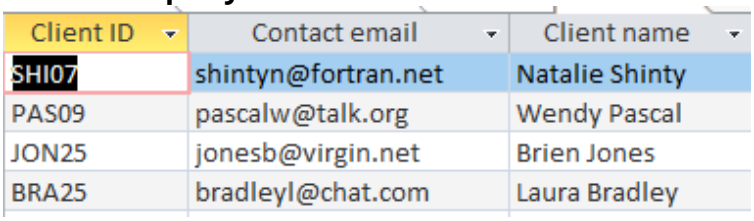
If no data entry form or shows incorrect data, award from the table</td><td>2</td></tr>
<tr><td>A2c</td><td>Sort alphabetical order of Country:
Egypt down to Wales</td><td>1</td></tr>
</table>

<table>
<tr><td>A2d</td><td>Query design:
<table>
<tr><td>Holiday ID
Destinations
Descending</td><td>Region
Destinations</td><td>Country
Destinations</td><td>Dive boat company
Destinations</td><td>Number of days
Destinations</td><td>Liveaboard or day boa
Destinations</td></tr>
<tr><td>☑</td><td>☑</td><td>☑</td><td>☐
Like "*Blue Water*"</td><td>☐
=7</td><td>☐
"liveaboard"</td></tr>
</table>

Correct ‘criteria’ row shown in design view:
• Award 2 marks for all 3 correct criteria
• Award 1 mark for 2 correct criteria
• Award no marks for 0 or 1 correct criteria

Result of Query:
 
<table>
<tr><th>Holiday ID</th><th>Region</th><th>Country</th></tr>
<tr><td>MD3</td><td>Ari Atoll</td><td>Maldives</td></tr>
<tr><td>EG2</td><td>Hurghada</td><td>Egypt</td></tr>
</table>

3 correct fields ‘shown’ – only Holiday ID, Region and Country – in any order (1)
4. fields displayed in the correct order - Holiday ID, Region and Country (1)
5. Holiday ID field sorted in descending order (1)</td><td>2

3</td></tr>
<tr><td>A2e</td><td>Results of query:
 
<table>
<tr><th>Client ID</th><th>Contact email</th><th>Client name</th></tr>
<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>
</table>

The report must:
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)

Do not allow marking point 5 (truncation) if it is not a database report</td><td>8</td></tr>
<tr><td>A2fi</td><td>State what is meant by the term primary key
A unique identifier / uniquely identifies each record in a table</td><td>1</td></tr>
<tr><td>A2fii</td><td>State what is meant by the term foreign key
A primary key in another table
Do not accept ‘secondary key’</td><td>1</td></tr>
<tr><td>A2fiii</td><td>Identify the relationship between the DESTINATIONS table and the CLIENTS table
One to many</td><td>1</td></tr>
</table>

A2fiv	*Explain **one** advantage of using a relational database rather than a single table.* 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)	2
	Total for Task A2	**24**
A3ai	Marks in bold, italics can only be awarded from the HTML The **HTML code** must include: ***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 <b>, 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	**Webpage including table**: 1. webpage title – Courses (1) 2. table includes 5 columns (1) 3. table includes 6 rows (1) 4. correct headings and values (1) **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 - Do not penalise for incorrect spelling or case Only award marks 2 and 3 if it is clearly a table	4
A3aiii	**HTML** - functional link from Home page to Courses page / Courses page to Home page	1
A3b	**HTML** changes: 1. text colour for Introductory Text – black (#000000) (1) 2. page title – underline <u> (1) Award mark point 2 if only visible from browser view	2
A3c	*State and justify one improvement you would make to your website.* Candidates need to state an improvement they would make (1) with a suitable justification produced (1)	2

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

B1ai	Automatic time centred in footer	1
B1aii	Merge and centre row 1 (A1:K1)	1
B1aiii	Merged cell has dark shading	1
B1aiv	Merged cell - font size - 22, font colour – white Award size mark if the text in the merged cell is larger than the rest of the text	1
B1bi	**Functions** **VLOOKUP** 1. Use of correct function =VLOOKUP( ) **or** =LOOKUP( ) for **either** Cost **or** Discount (1) 2. Use of correct lookup value (B3) for **either** Cost **or** Discount (1) 3. Use of correct table array (Details!A$2:C$7) / lookup vector (Details!A$2:A$7) for **either** Cost **or** Discount (1) 4. Use of **both** correct column index numbers (2 **and** 3) **OR** use of **both** correct result vectors (Details!B$2:B$7 **and** Details!C$2:C$7) (1) Examples: **Cost** =VLOOKUP(B3,Details!A$2:C$7,2,0) **Discount** =VLOOKUP(B3,Details!A$2:C$7,3,0) **Cost** =LOOKUP(B3,Details!A$2:A$7,Details!B$2:B$7) **Discount** =LOOKUP(B3,Details!A$2:A$7,Details!C$2:C$7) Accept without use of absolute referencing Allow named ranges and allow absence of final argument in VLOOKUP (,0) Allow cell reference A2:C7 as named range 'Courses' **COUNTIF** 5. Courses referenced as C: =COUNITIF(B3:B16,"C")	4 1
B1bii	**Cell E3 for Cost of course with discount** =C3-(C3*D3) **H3 – OW venue fee** =Details!D$10*F3 Accept without use of absolute referencing **I3 – Tank fee** =Details!C$12*G3 Accept without use of absolute referencing **J3 – Total cost** =E3+H3+I3	1 1 1 1

B1biii	**Formula view** Replicate functions and/or formulae for all other courses for any **ONE** column	1
B1biv	IF statement to display Free kit bag for all courses with a **Total Cost** of more than £400 =IF(J3>400, "Free kit bag","") Allow =IF(J3<=400,"","Free kit bag") Do not accept anything other than “”	 1 1
B1bv	=MAX(G3:G16) =MIN(G3:G16)	1 1
B1c	**Data view** 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) Award marks on the filter printout	4
	Total marks for Task B1	**22**
B2	Filtered to show those courses where a free kit bag is offered **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
	Total for Task B2	**1**

<table>
<tr><td>B3a</td><td>Suitable chart to display:
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)

Award marking point 2 if a pie chart has been included

</td><td>3</td></tr>
<tr><td>B3b</td><td>Display course title, total cost and notes (A, J, K only)
Award this mark form the filter view if this printout is not included
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</td><td>1 `</td></tr>
<tr><td>B3ci</td><td>Explain one advantage of using named ranges in a spreadsheet.
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)</td><td>2</td></tr>
<tr><td>B3cii</td><td>Explain one advantage of using lookup tables in a spreadsheet.
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</td><td>2</td></tr>
<tr><td></td><td>Total for Task B3</td><td>8</td></tr>
</table>

B4a	Include a series of 4 slides: 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) *Mark points 8, 9 and 10*: Award one mark for each feature up to a maximum of 3 marks for fitness for purpose, e.g: • 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	**Hyperlink**: 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	*Explain one benefit to Simon of using a master slide for his presentation.* A consistent look to all slides (1) so the company portrays a professional look (1) **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) **OR** Quicker to add new slide (1) as all basic formatting has been performed (1)	2
B4civ	*State one reason why it is important to change the default filenames when saving files.* Any **one** from: • 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**

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