

Mark Scheme (Provisional)

Summer 2021

Pearson Edexcel International GCSE
In Information and Communication Technology
(4IT1)

Paper 02: Practical Paper

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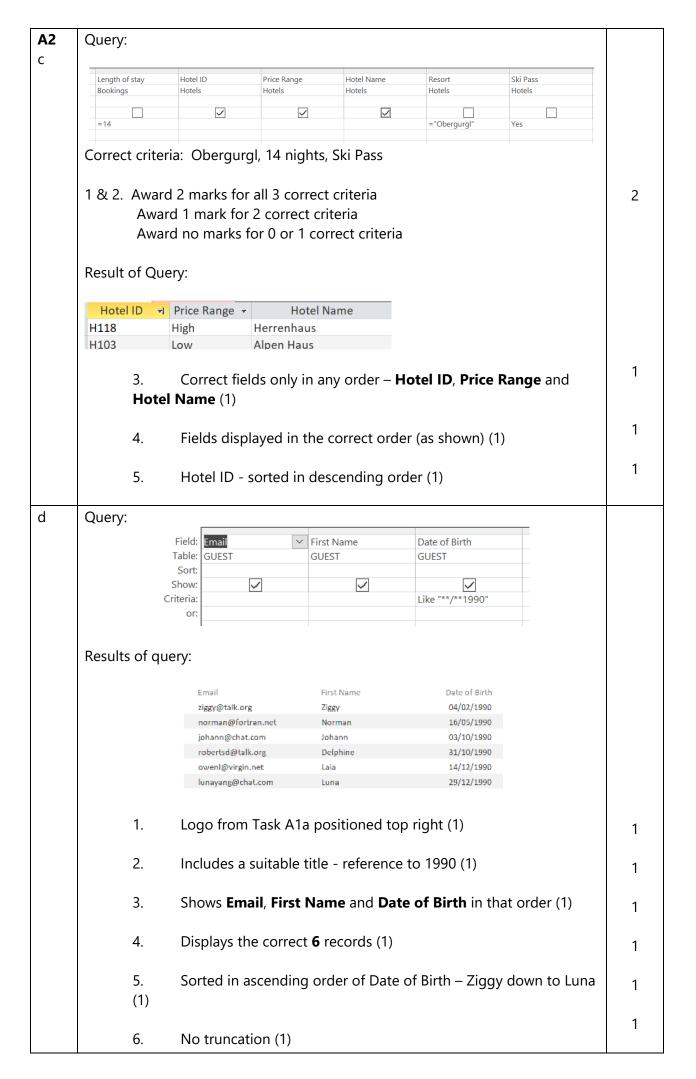
General Marking Guidance

- 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.

June 2021 – Skiing

Task	Answer	Marks
	Section A	
A1	Graphics	
a	Logo: 1. combination of lines or shapes (1) – do not award for a single line or shape	1
	2. clearly represents skiing (1)	1
	3. include 'TSR' - do not award if 'The Ski Run' has been included (1)	1
b	Any image edited to:	
	 include the company name The Ski Run (1) allow 'THE SKI RUN' or 'The Ski Run' or 'the ski run' – accept upper case, title case or lower case. only award the mark for the correct spelling do not accept 'TSR' only award the mark if the company name is appropriately sized and positioned award the mark if the logo includes the company name. 	1
	 include the logo (1) only award the mark if the logo is appropriately sized and positioned. 	1
	Total for Task A1	5

A2	Database		Marks			
а	Data entry form:					
	1. Logo from Task A1	la is included (1)	1			
	2. Logo positioned top right to follow the house style (1)					
	3. Includes a suitable (1)	title – reference to Hotels/Accommodation	1			
			1			
		cm wide – award the mark if the screenshot is				
	missing but the field is obviously smaller (1)					
	5. Hotel Name field is 6 cm wide – only award this mark only if the screenshot shows the width change (1)					
	Do not penalise for spelling error	s in the title				
b	Data entry via form:					
	Hotel ID H	201				
	Hotel Name Ke	eltischer Berg				
	Resort In	nsbruck				
	Ski Pass Ye	2 S				
	Price Range M	ledium				
	Award 2 marks for 5 correct entri	es				
	Award 1 mark for 3 or 4 correct e		2			
	Award no marks for 0, 1 or 2 corr	ect entries				
	Ignore spelling of Hotel Name an	d Resort				



A2 e (i)	Identify the type of relationship that will be needed between the HOTEL table and the BOOKING table.	
	One to many.	1
	Accept alternative notations e.g. 1:M, 1:N	
e (ii)	Explain one reason why referential integrity should be enforced for relationships in a database.	
	It is a form of data validation (1) so it makes sure that invalid data cannot be entered into any two of the tables (1)	2
	System of rules that ensure database data is valid (1) so that you cannot accidentally delete a record in one table if it exists in a related table (1)	
	You cannot accidently delete a record (1) because it is a foreign key in another table (1)	
	Invalid data cannot be entered (1) because the foreign key must exist as a primary key first (1)	
e (iii)	State the name of the table that would have its data entered last.	
	BOOKING	1
e (iv)	Explain one reason why Like "*haus*" would be used in a database search	2
	To return any occurrence of hotels with haus in their name (1) because without it there would be no hotel with just the name haus (1)	2
	Total for Task A2	24

Web authoring **A3** a (i) Ignore all spelling and case The home page design: **Company Name** Page Title Introductory Text 200рх х Home 200рх Ski Lessons 200px x 200px Please contact us on (email address) for further information The home page: 1 <h1> (Company Name – allow TSR) and <h2> (Page Title – 1. accept any appropriate page title) – h1 and h2 must be included on the correct sections – company name and page title (1) 1 2. <u> used on Page Title (1) 1 Background - Blue Gray (#98AFC7) and Introductory Text -White (#FFFFFF) – allow the background mark if the background for the boxes in the design use the correct colour (1) 1 Links appear on the left of the page and appropriate text is in the centre and images (any number of images) are on the right of the page (1) 1 5. All images are the correct size (200px x 200px) (1) 1 Images are vertically aligned (1) 6. 1 7. Links appear one above the other (1) 1 One image links to http://www.theskirun.net (1) 8. 1 Email link - mailto: sam@tsr.net (1) 9. 1 10. Home page consistent with the design structure – ignore the text in the footer (1)

А3	1. P	age title – Refer	ence to Lessons (1)	1			
a (ii)	HTML table incl	uded (do not aw	ard marks for a table created in word):				
	Time	Area to meet	Instructors				
	09.00 – 11.00	Green area	Johann, Kris, Melody				
	11.15 – 13.15	Blue area	Charlotte, Bruno, Maria				
	13.30 – 16.00	Red area	Heidi, Soloman, Ceillan				
	2. Appropriate use of table elements – award the mark if an appropriate table has been created in HTML (1)						
	3. B	order set to any	appropriate px size (1)	1			
		able content - re WEBSITE docur	elevant information included in the table taken nent (1)	1			
a (iii)		•	om Home page to Ski Lessons page OR ns page to Home page	1			
	<a href="xxxxxx</td><td>.html">xxxxxx<!--</td--><td>a></td><td></td>	a>					
b	HTML changes:						
	1. A	ny text element	colour changed to – Indigo (#4B0082) (1)	1			
	2. R	Right align the co	ontact details (email address) (1)	1			
			ate has presented the final web page with the nange of text colour if it shows blue.				
	Do not award th	ne right align ma	rk for anything other than the footer section.				
c (i)	<img src="slalon</td"/> <td>n.jpg alt="Image</td> <td>e of skier"></td> <td></td>	n.jpg alt="Image	e of skier">				
	State one reasor	n why the code w	vill not display the image				
		around the imag m.jpg" alt="Imag	ge – the image will not display ge of skier">	1			

А3	Explain one reason why alt text has been used on the image	
c (ii)	If the image does not display (1) then users would still know what the image is (1)	2
	Some people are visually impaired (1) which means they will still know what the image is (1)	
	Some people have limited bandwidth (1) so they would not be able to download the image data (1)	
	Images provide context to the information presented (1) which makes it clear to users what is being shown (1)	
	Images are often used to provide information that is not included in the main text (1) so users can see still be provided with the full information (1)	
c (iii)	Give one advantage of using a template when setting up web pages	
	To ensure consistency between pages Saves time (accept quicker) Easily follows house style	1
	The developer can concentrate on the content / does not have to think about the placement and style	
	Total for Task A3	21

B1	Section B Spreadsheets 1 1 3 4 5 6 7 8	Member Name Pascal Laia	Member Type Level 1 (Beginners) Level 2 (Intermediate)	C tion 20: Equipment Hire € 230		E		S
B1	1 3 4 5 6 7 8	Member Name Pascal Laia Zahid	Member Type Level 1 (Beginners) Level 2 (Intermediate)	tion 20 Equipment Hire	21	E		
	3 4 5 6 7 8	Member Name Pascal Laia Zahid	Member Type Level 1 (Beginners) Level 2 (Intermediate)	tion 20 Equipment Hire	21	E		
	3 4 5 6 7 8	Member Name Pascal Laia Zahid	Member Type Level 1 (Beginners) Level 2 (Intermediate)	Equipment Hire				
	4 5 6 7 8	Pascal Laia Zahid	Level 1 (Beginners) Level 2 (Intermediate)	Hire				
	4 5 6 7 8	Pascal Laia Zahid	Level 1 (Beginners) Level 2 (Intermediate)			Total		
	6 7 8	Zahid	Level 2 (Intermediate)	€ 230	Ski Pass € 150	Cost € 380		
	7		Lavad 2 (Advissa 1)	€ 280	€ 150	€430		
		Preety	Level 3 (Advanced)	€ 340	€120	€ 460		
			Level 1 (Beginners)	€ 230	€ 150	€ 380		
	9	- 1	Level 1 (Beginners)	€ 230	€ 150			
			Level 2 (Intermediate)	€ 280	€ 150			
		Emmanuel	Level 3 (Advanced)	€ 340	€120	i		
		Arlo	Level 3 (Advanced)	€ 340	€120			
		Polly Johann	Level 2 (Intermediate) Level 3 (Advanced)	€ 280 € 340	€ 150 € 120	i		
		Shay	Level 3 (Advanced) Level 2 (Intermediate)	€ 340 € 280	€ 120 € 150			
		Connor	Level 1 (Beginners)	€ 230	€ 150	1		
		Ziggy	Level 1 (Beginners)	€ 230	€ 150			
		Luna	Level 3 (Advanced)	€ 340	€ 120	i		
		Aashish	Level 2 (Intermediate)	€ 280	€ 150			
	19)						
	20	Total Cost of Equi	pment Hire	€4,250				
a (i)	New row inserte Information 202		p of the spread	sheet and	inclu	de the	heading 'Ski	1
a (ii)	Row 1 merged	and centred	d (A1:E1)					1
a (iii)	Heading format	tted:						1
								'
	bold							
	• larger si	ze font tha	n the rest of the	text				
a (iv)	Header:							
	Completed: dat	e of exam (from 26/04/202	1)				1
a (v)	New row inserte	ed with red	uced height (as	row 2)				1
	Award the mark	c if any noti	ceable reductio	n has bee	n mad	de to th	ne height	
	Only award the	mark if rov	v labels or gridli	nes are sh	iown			

B1	Cost of Equipment Hire	
b (i)	1. Use of correct function (=VLOOKUP or =LOOKUP) for	1
	Equipment Hire	_
	2. Use of correct lookup value (B4) for Equipment Hire	1
	2. Ose of correct lookup value (51) for Equipment file	1
	3. Use of correct table array (Details!A\$14:B\$16) / lookup vector	
	(Details!A\$14:A\$16)	1
	4. Use of correct column index number (2) OR use of correct results vector (Details!B\$14:B\$16)	'
	Examples:	
	=VLOOKUP(B4,Details!A\$14:B\$16,2,0) OR =VLOOKUP(B4,Details!A\$14:B\$16,2)	
	=LOOKUP(B4,Details!A\$14:A\$16,Details!B\$14:B\$16)	
	Accept without use of absolute referencing	
	Allow named ranges and allow absence of final argument in VLOOKUP (,0)	
b (ii)	Cost of the Ski Pass that includes a 20% discount if the cost of the	
	equipment hire is more than 300€	
	=If(C4>300,	1
	Details!B\$18-Details!B\$18*20%, OR Details!B\$18*80%,	1
	Details!B\$18)	1
	Accept without use of absolute referencing	
b (iii)	Total cost of the Equipment Hire and the Ski Pass	
, ,	=C4+D4	1
	Allow -SUM(CA:DA)	
	Allow =SUM(C4:D4)	
b (iv)	Replicate functions and formulae for all other members using absolute cell	1
	referencing:	
	Equipment HireSki Pass	
	Total Cost (absolute referencing not required)	
b (v)	Total cost of Equipment Hire	4
	=SUM(C4:C18)	1
	Allow the function to appear in any cell	

B1	Spreadshee	et fo	ormatting:					
С	1.		Currency show	ing € with no	decimal places	3		1
	2. hea	ndir	Headings wrap	ped to use sp	ace efficiently	– allow f	or one	1
	3.		All data visible	– cell content	s, column labe	ls (no tru	uncation)	1
	4. Row and column headings and page header displayed							1
			A	В	С	D		
		1	Ski runs	D	C	<i>D</i>	_	
		2	Total length in km	108				
		3	Total length in kin	100				
		4	Ski run type	Length in km	% length of run			
		5	Blue	54	50	50%		
		6	Red	36	33	33%		
		7	Black	18	17	17%		
		8						
		9		3.5				
		10	Average ski run	36				
d (i)	=B5*100/\$ Accept B5/	e lo B\$; 'B2	ength of each s 2 then the use of th of all the sk	percentage fo	rmat			1
	-AVLNAGE	_(D.	ן זע.נ				_	
						Total	for task B1	21

B2	Filtered to show only	y Le	vel 3 members				1
	Displaying only the I	Mer	mber Name and 1	Γotal Cost			1
		۷					
		3	Member Name 🔻	Total Cost	₩		
		6	Zahid	€4	460		
		10	Emmanuel	€4	460		
		11	Arlo	€4	460		
		13	Johann	€4	460		
		17	Luna	€4	460		
	Do not penalise if th	ere	is data at the bot	tom of the	of t	the spreadsheet	
						Total for Task B2	2

Suitable (pie) chart that includes the percentage of the ski run length **B3** а Has a suitable title (e.g. Reference to Ski Run Length) (1) 1. 1 Includes suitable labels showing the values (50, 33, 17) (1) 1 2. Includes % (1) 1 3. The % symbol must either be in the title or on the segments Ski run lengths in % ■ Blue ■ Red ■ Black Ski run length % 0.60 0.50 Length of run 0.30 0.20 0.10 0.00 Blue Red Black Run colour The bar chart was awarded 2 marks: Suitable title refers to ski run length (1) Suitable labels showing values – bars should have included the exact values so this mark is not awarded (0) The title includes the % (1) b Display Member Name, Member Type and Ski Pass cost (A, B and D only) Ski Information 2021 4 Pascal Level 1 (Beginners) 5 Laia 6 Zahid Level 2 (Intermediate) € 150 € 120 Level 3 (Advanced) / Preety 8 Baljinder Level 1 (Beginners) €150 Level 1 (Beginners) € 150 9 Pierre Level 2 (Intermediate) € 150 10 Emmanuel Level 3 (Advanced) 11 Arlo 12 Polly Level 3 (Advanced) € 120 € 150 Level 2 (Intermediate) 13 Johann Level 3 (Advanced) 14 Shay 15 Connor Level 2 (Intermediate) € 150 Level 1 (Beginners) € 150 16 Ziggy Level 1 (Beginners) Level 3 (Advanced) 18 Aashish Level 2 (Intermediate) Do not penalise if there is additional information at the bottom of the spreadsheet.

_						
B3			A	В		
			1 Hotel Star Ratings 2 Hotel Name	Chan Ballian		
c (i)			2 Hotel Name 3 Das Konservatorium	Star Rating		
			4 Haus Montain	3		
			5 Alpen Haus	3		
			6 Keltisch Resort	5		
			7 Hotel Flussfer 8 Haus Wald	4		
			9 Hotel Ski	5		
			10 Hotel mit grünem Blick	5		
			11 Skigebiet	4		
			12 Die Hütte	3		
			13 Haus Sloeden	5		
			14 Gurgl ski resort	3 =COUNTIF(B3:B14,B7)		
			15.	-0001111(00:021,07)		
	For the	 It compare (which is 4 stare) It returns a It compare With the value 	the range of cest the value of rating) I value of 3 Is the values in alue in B7	any 3 of: ells B3 to B14 the cells to m	atch the content of cell	1 1 1
		3. And return	is the number		nents	
c (ii)		Α	Ski_run_informatio A Ski runs Total length in k Ski run type Blue Red Black	В		1
	State the Named	e feature labelled i range	4			
					Total for Task B3	8

B4 a	1.	Heading (Welcome to the Ski Run) and sub-heading (Ski lessons offered:) atted appropriately	1
	101111	atted appropriately	
	2.	Use of bullets/sub bullets to match instructions	1
		Welcome to The Ski Run	
		Ski lessons offered: • private	
		o must be pre-booked o requires a 10% deposit	
		 group beginners intermediate advanced 	
		Sam's Ski School Private Ski Lessons 200€ pm 210€ pm 220€ 2 hours am 3 hours am 3 hours am 420€ 240€ pm 220€ 4 hours am 368€ 6 hours am 420€ 368€ 6 hours am 420€ Group Ski Lessons 2020/2021 1 day 100€ 5 days 3 days 216€ 6 days 3 08€ 282€ 3 days 216€ 6 days 308€ 4 days 254€ Extra day 50€	
	3.	Appropriate number of columns and rows (1)	1
	4.	Any evidence of merging cells (1)	1
	5.	Cells merged follow the design (1) Sam's Ski School Private Ski Lessons Group Ski Lessons Blank section	1
	6.	Sam's Ski School heading – centred horizontally and vertically (1)	1
	7.	 Other alignment (1) Private Ski Lessons and Group Ski Lessons – left aligned Dates appear to the right of the rows 	1
	8.	Text colour – appropriate use of colour contrast on the content of the cells (1)	1
	9.	Sam's Ski School – size 28 and serif font (1)	
	10.	Appropriate use of shading that follows the design (1)	1
	11.	Content – time and money cells (1)	1
	•	Sans-serif font	1
	•	Smaller font size than headings	'
	•	Euro symbol	
	12.	The table follows the provided design (1)	1
	13.	The fact sheet is fit for purpose (1)	1

	Total for Task B4	19
	The word may be a homonym/spelt correctly (1) but not in the right context (1)	
	The word may be so badly spelt (1) which means the software has no idea of what the word should be so won't recognise it (1)	
	The word used may be a name (1) which as there are so many different names it is impossible for the software to recognise it (1)	
	The software may be set to a different country (1) so although the word is spelt correctly in that language, the software thinks it is an error (1)	2
	Explain one reason why proofreading is still required.	
b (iii)	Spelling and grammar tools have been used to check some text.	
	Save as allows for version control (1) so you can go back to earlier versions (1)	
	Save as allows you to change the file format (1) so that you can save a file in any format other than the default format (1)	
	Save as allows you to change the file destination (1) so that you can save a file anywhere other than the default destination (1)	
	Save as allows you to change the filename (1) so that you can save a file with something other than the default name provided (1)	2
b (ii)	Explain one reason why 'Save As' is used rather than 'Save' when saving a file.	
	Learners will provide their own improvements with an appropriate expansion	
	Size of table due to font size choices (1) so the information is clearly displayed (1)	
	Different use of font styles, sizes, enhancements (1) so that the text stands out more when reading (1)	
b (i)	Changing colours of the background and text (1) so that the text is clearer to read (1)	2
B4	Explain one improvement you would make to the table.	