

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					
	Section A					
A1	Graphics					
а	Logo: 1. combination of lines or shapes (1) – do not award for a single line or shape	1				
	2. clearly represents skiing (1)	1				
	 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. 2. include the logo (1) 	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 A1a is	included (1)	1			
	2. Logo positioned top ri	ght to follow the house style (1)	1			
	3. Includes a suitable title	e – reference to Hotels/Accommodation	1			
	 (1) 4. Hotel ID field is 2 cm wide – award the mark if the screenshot 					
	missing but the field is obviou		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 errors in	the title				
b	Data entry via form:					
	Hotel ID H201					
	Hotel Name Keltise	cher Berg				
	Resort Innsb	ruck				
	Ski Pass Yes					
	Price Range Mediu	ım				
	Award 2 marks for 5 correct entries					
	Award 1 mark for 3 or 4 correct entries					
	Award no marks for 0, 1 or 2 correct entries					
	Ignore spelling of Hotel Name and Resort					

A2	Query:									
с	-									
	Length of stay Bookings	Hotel ID Hotels	Price Range Hotels	Hotel Name Hotels	Resort Hotels	Ski Pass Hotels				
	=14	\checkmark	\checkmark		="Obergurgl"	Yes				
			. 1 4							
	Correct criter	ria: Obergurg	gl, 14 nigh	its, Ski Pass						
	1 9, 2 1, 4, 2, 7	d 2 marks for	all 2 corr	oct critoria			2			
	1 & 2. Award 2 marks for all 3 correct criteria Award 1 mark for 2 correct criteria Award no marks for 0 or 1 correct criteria									
	Award no marks for U or T correct criteria									
	Result of Que	erv:								
	Result of Qu	cry.								
	Hotel ID 🚽	Price Range ᠇	Hote	el Name						
	H118	High	Herrenhaus	S						
	H103	Low	Alpen Haus	5						
							1			
	3.		ds only in	any order –	Hotel ID, Price	Range and				
	Hote	l Name (1)								
							1			
	4.	Fields disp	layed in th	ne correct or	der (as shown) (1)				
	_				1 (1)		1			
	5.	Hotel ID -	sorted in d	descending o	order (1)					
d	Query:									
		Field: Email		First Name	Date of Birth					
		Table: GUEST Sort:		GUEST	GUEST					
		Show:	\checkmark	\checkmark	\checkmark					
	0	Criteria:			Like "**/**1990"					
		or:								
	Results of qu	iery:								
		Erre all		First Manual	Data of Bisth					
		Email ziggy@talk.org	2	First Name Ziggy	Date of Birth 04/02/1990					
		norman@fort		Norman	16/05/1990					
		johann@chat		Johann	03/10/1990					
		robertsd@tall owenl@virgin	-	Delphine Laia	31/10/1990 14/12/1990					
		lunayang@ch		Luna	29/12/1990					
	1.	Loao from	Task A1a	positioned to	op right (1)		1			
		Logonom		posicionea c	spright (i)		1			
	2.	Includes a	suitable ti	tle - referenc	e to 1990 (1)		1			
		includes a					1			
	3.	Shows Em	ail. First N	lame and Da	te of Birth in th	at order (1)	1			
		0					I			
	4.	Displays th	e correct	6 records (1)			1			
							I			
	5.	Sorted in a	scendina	order of Date	e of Birth – Zigg	v down to Luna	1			
	(1)					,				
							1			
	6.	No truncat	ion (1)							

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	
	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

A3	Web authoring						
a (i)	Ignore all s	pelling and case					
	The home p	bage design:					
		Company Name					
		Page Title					
		Introductory Text Image					
		Home 200px x 200px 200px					
		Ski Lessons					
		Image 200px x					
		200px					
		Please contact us on (email address) for further information					
	The home p						
			4				
	1.	<h1> (Company Name – allow TSR) and <h2> (Page Title –</h2></h1>	1				
		pt any appropriate page title) – h1 and h2 must be included on the ect sections – company name and page title (1)					
			4				
	2.	<u> used on Page Title (1)</u>	1				
	3.	Background - Blue Gray (#98AFC7) and Introductory Text -	1				
		te (#FFFFFF) – allow the background mark if the background for the es in the design use the correct colour (1)					
	4.	Links appear on the left of the page and appropriate text is in	1				
	the	centre and images (any number of images) are on the right of the					
	page	e (1)					
	5.	All images are the correct size (200px x 200px) (1)	1				
	6.	Images are vertically aligned (1)	1				
	7.	Links appear one above the other (1)	1				
	8.	One image links to http://www.theskirun.net (1)	1				
	9.	Email link - mailto: sam@tsr.net (1)	1				
	10. text	Home page consistent with the design structure – ignore the in the footer (1)	1				

A3	1. Page title – Reference to Lessons (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 Is page to Home page	1				
	<a href="xxxxxx</th><th>.html">xxxxxx<!--</th--><th>a></th><th></th>	a>						
b	HTML changes:							
	1. A	Any 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</th"/> <th>n.jpg alt="Image</th> <th>e of skier"></th> <th></th>	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				

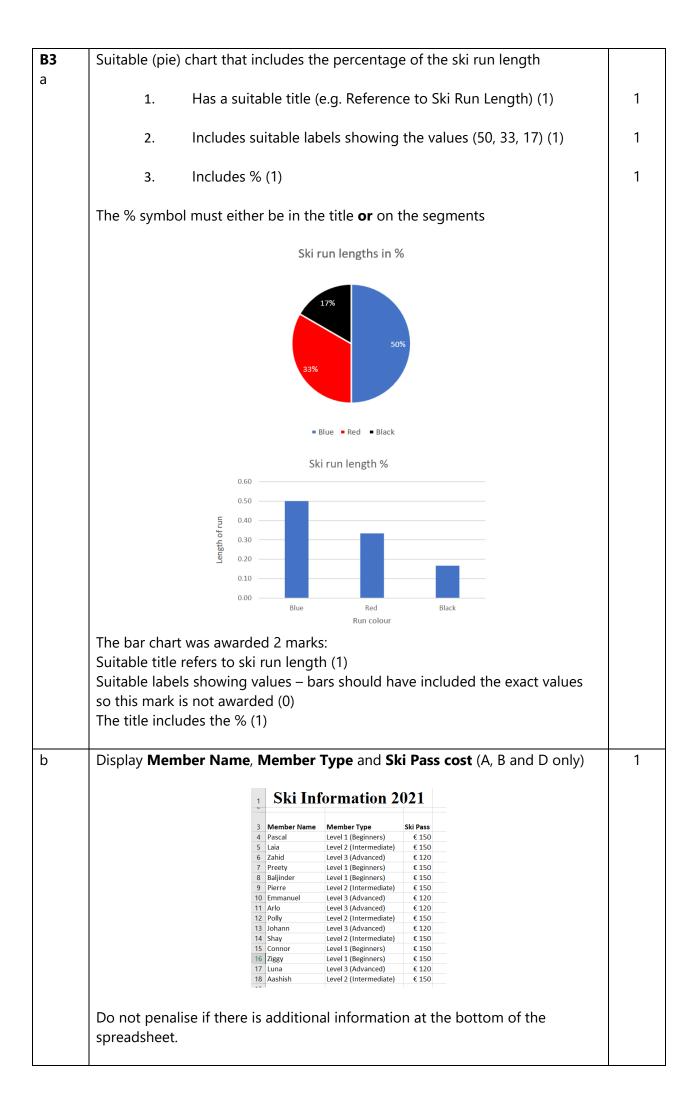
	Total for Task A3	21
	To ensure consistency between pages Saves time (accept quicker) Easily follows house style The developer can concentrate on the content / does not have to think about the placement and style	1
c (iii)	Give one advantage of using a template when setting up web pages	4
	Images are 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)	
	Images provide context to the information presented (1) which makes it clear to users what is being shown (1)	
	Some people have limited bandwidth (1) so they would not be able to download the image data (1)	
	Some people are visually impaired (1) which means they will still know what the image is (1)	
c (ii)	If the image does not display (1) then users would still know what the image is (1)	2
A3	Explain one reason why alt text has been used on the image	

	sk Answer							Mark
	Section B							S
B1	Spreadsheets						_	
		A	В	С	D	E		
	1	S	Ski Informa	tion 20	21	1		
	- 3	Member Name	Member Type	Equipment Hire	Ski Pass	Total Cost		
	4	Pascal	Level 1 (Beginners)	€ 230				
	5	Laia	Level 2 (Intermediate)	€ 280	€ 150	€430		
	6	Zahid	Level 3 (Advanced)	€ 340		i		
	7	Preety	Level 1 (Beginners)	€ 230				
	8	Baljinder Pierre	Level 1 (Beginners)	€ 230		i i		
	9	Emmanuel	Level 2 (Intermediate) Level 3 (Advanced)	€ 280 € 340				
		Arlo	Level 3 (Advanced)	€ 340		€ 460		
		Polly	Level 2 (Intermediate)	€ 280				
		Johann	Level 3 (Advanced)	€ 340		i		
	14	Shay	Level 2 (Intermediate)	€ 280	€ 150	€430		
		Connor	Level 1 (Beginners)	€ 230	€ 150	€ 380		
		Ziggy	Level 1 (Beginners)	€ 230	€ 150	€ 380		
		Luna	Level 3 (Advanced)	€ 340				
		Aashish	Level 2 (Intermediate)	€ 280	€ 150	€430		
	19		viamont Uiro	64.250				
	20	Total Cost of Equ		€ 4,250		1		
a (i)	New row inserted	ed at the to	op of the spread	sheet and	l inclu	da tha	heading 'Ski	1
	Information 202	21′						1
a (ii)	Row 1 merged		· · ·					1
a (ii) a (iii)		and centre	· · ·					
	Row 1 merged a Heading format • serif • bold	and centre	· · ·					1
a (iii)	Row 1 merged a Heading format • serif • bold	and centre	d (A1:E1)					1
a (iii)	Row 1 merged a Heading format •serif •bold •larger si Header:	and centre ted: ze font tha	d (A1:E1)	e text				1
	Row 1 merged a Heading format •serif •bold •larger si Header: Completed: dat	and centre ted: ze font tha e of exam	d (A1:E1) In the rest of the	e text 21)				1
a (iii) a (iv)	Row 1 merged a Heading format •serif •bold •larger si Header: Completed: dat	and centre ted: ze font tha e of exam ed with rec	d (A1:E1) In the rest of the (from 26/04/202	e text 21) row 2)				1

B1	Cost of Equipment Hire	
b (i)	1. Use of correct function (=VLOOKUP or =LOOKUP) for Equipment Hire	1
	2. Use of correct lookup value (B4) for Equipment Hire	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)	I
	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(C4:D4)	
b (iv)	Replicate functions and formulae for all other members using absolute cell referencing:	1
	Total Cost (absolute referencing not required)	
b (v)	Total cost of Equipment Hire	1
	=SUM(C4:C18)	
	Allow the function to appear in any cell	

B1	Spreadshee	et fo	ormatting:					
С	1.		Currency show	ving € with no	decimal places	5		1
	2. hea	adir	÷ .	oped to use sp	ace efficiently	– allow f	for one	1
	3.	uum	-	e – cell content	s, column labe	ls (no tri	uncation)	1
	4.			nn headings ai		-	-	1
			А	В	С	D		
		1	Ski runs			-	_	
		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						
		10	Average ski run	36				
		11						
d (i)	DETAILS v Percentag =B5*100/\$	e le	ength of each s	ski run type				1
	Accept B5,	/B2	then the use of	percentage fo	rmat			
d (ii)	Average le =AVERAGI	_	t h of all the sk 5:B7)	ki runs				1

B2	Filtered to show only Level 3 members								
	Displaying only the Member Name and Total Cost								
	۷				_				
	3	Member Name 💌	Total Cost	Ŧ					
	6	Zahid	€4	60					
	10	Emmanuel	€460						
	11	Arlo	€40	60					
	13	Johann	€40	60					
	17	Luna	€40	60					
	Do not penalise if there is data at the bottom of the of the spreadsheet								
	-								
					Total for Task B2	2			



B3			А	В		
			1 Hotel Star Ratings 2 Hotel Name	Star Rating		
c (i)			3 Das Konservatorium	5		
			4 Haus Montain	3		
			5 Alpen Haus 6 Keltisch Resort	5		
			7 Hotel Flussfer	4		
			8 Haus Wald	4 5		
			9 Hotel Ski10 Hotel mit grünem Blick	5		
			11 Skigebiet	4		
			12 Die Hütte 13 Haus Sloeden	3 5		
			14 Gurgl ski resort	3		
			15	=COUNTIF(B3:B14,B7)		
		 It compare B7 (which is 4 star It returns a It compare It compare With the v 	d one mark for the range of ce es the value of t rating) a value of 3 es the values in alue in B7	any 3 of: Ils B3 to B14 the cells to m the range B3	natch the content of cell	1 1 1
	Must	3. And returr refer to given exam	ns the number of		ments	
c (ii)		Α	Ski_run_information A Ski runs C Total length in kr S Ski run type S Blue Red Red Black	В		1
		<i>he feature labelled .</i> d range	A			
					Total for Task B3	8

B4	1.	Heading (Welcome to the Ski Run) and sub-heading (Ski lessons offered:)	1
а	form	atted appropriately	
	2.	Use of bullets/sub bullets to match instructions	1
		Welcome to The Ski Run	
		Ski lessons offered: • private	
		 must be pre-booked requires a 10% deposit 	
		• group	
		 beginners intermediate 	
		o advanced∣	
		Sam's Ski School	
		Private Ski Lessons 2020/2021	
		2 hours am 200€ pm 210€ 3 hours am 240€ pm 220€	
		4 hours am 300€ 5 hours am 368€ 6 hours am 420€	
		Group Ski Lessons 2020/2021	
		1 day 100€ 5 days 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)	1
		Sam's Ski School	
		Private Ski Lessons Croup Ski Lessons	
		 Group Ski Lessons Blank section 	
	6.	Sam's Ski School heading – centred horizontally and vertically (1)	1
	7.	Other alignment (1)	1
		Private Ski Lessons and Group Ski Lessons – left aligned	
		Dates appear to the right of the rows	
	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
1			1 1

B4	Explain one improvement you would make to the table.	
b (i)	Changing colours of the background and text (1) so that the text is clearer to read (1)	2
	Different use of font styles, sizes, enhancements (1) so that the text stands out more when reading (1)	
	Size of table due to font size choices (1) so the information is clearly displayed (1)	
	Learners will provide their own improvements with an appropriate expansion	
b (ii)	Explain one reason why 'Save As' is used rather than 'Save' when saving a file.	
	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
	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 file format (1) so that you can save a file in any format other than the default format (1)	
	Save as allows for version control (1) so you can go back to earlier versions (1)	
b (iii)	Spelling and grammar tools have been used to check some text.	
	Explain one reason why proofreading is still required.	
	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
	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 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 may be a homonym/spelt correctly (1) but not in the right context (1)	
	Total for Task B4	19

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