

Mark Scheme (Results)

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 <b>or</b> 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:					
	<ol> <li>include the company name The Ski Run (1)         <ul> <li>allow 'THE SKI RUN' or 'The Ski Run' or 'the ski run' – accept upper case, title case or lower case.</li> <li>only award the mark for the correct spelling</li> <li>do not accept 'TSR'</li> <li>only award the mark if the company name is appropriately sized and positioned</li> <li>award the mark if the logo includes the company name.</li> </ul> </li> <li>include the logo (1)         <ul> <li>only award the mark if the logo is appropriately sized and positioned.</li> </ul> </li> </ol>	1				
	Total for Task A	1 5				

A2	Database		Marks		
а	Data entry form:				
	1. Logo from Task A1a is included (1)				
	2. Logo positioned top right to fo	bllow the house style (1)	1		
	3. Includes a suitable title – refere	ence to Hotels/Accommodation (1)	1		
	4. Hotel ID field is 2 cm wide – award the mark if the screenshot is missing but the field is obviously smaller (1)				
	<ol> <li>Hotel Name field is 6 cm wide – only award this mark only if the screenshot shows the width change (1)</li> </ol>				
	Do not penalise for spelling errors in t	he title			
b	Data entry via form:				
	Hotel ID H201				
	Hotel Name Keltisch	her Berg			
	Resort Innsbru	uck			
	Ski Pass Yes				
	Price Range Mediu	m			
	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 e	ntries	2		

A2	Query:						
С							
	Length of stay		Price Range	Hotel Name	Resort	Ski Pass	
	Bookings	Hotels	Hotels	Hotels	Hotels	Hotels	
	=14	$\checkmark$	$\checkmark$		-"Oborgurg!"	Yes	
	= 14				="Obergurgl"	Yes	
	Correct c	riteria: Obergu	ral, 14 night	s, Ski Pass			
		5	5, 5	,			
	1 & 2. Av	ward 2 marks fo	or all 3 correct	ct criteria			2
	A	ward 1 mark fo	r 2 correct c	riteria			
		ward no marks					
	Result of	Query:					
	itesuit of	Query.					
	Hotel ID	- Price Range	- Hotel	Name			
	H118	High	Herrenhaus	Hume			
	H103	Low	Alpen Haus				
	3. C	orrect fields onl	y in any ord	er – <b>Hotel ID</b> ,	Price Range	and <b>Hotel</b>	
		<b>ame</b> (1)	<i>,</i>	,	5		1
	⊿ Fi	elds displayed i	n the correc	t order (as shi	(1)		
	4. FI	elus uispiayeu i	in the correc		JWH) (1)		1
			•				
	5. H	otel ID - sorted	in descendi	ng order (T)			1
d	Query:						
6	Query.		-1				
		Field: Email Table: GUEST		rst Name JEST	Date of Birth GUEST		
		Sort:		5251	GOLDI		
		Show:	$\checkmark$	$\checkmark$	$\checkmark$		
		Criteria:			Like "**/**1990"		
		or:					
	Results o	f query:					
		Email		First Name	Date of Birth		
		ziggy@talk.c		Ziggy	04/02/1990		
		norman@fc		Norman	16/05/1990		
		johann@cha robertsd@ta		Johann	03/10/1990		
		_		Delphine	31/10/1990		
		owenl@virg lunayang@d		Laia Luna	14/12/1990 29/12/1990		
		landyange		20110	23/ 12/ 1330		
		<i>c</i> –					
	1. Lo	ogo from Task A	a position	ed top right (1	1)		1
	2. In	cludes a suitab	e title - refe	rence to 1990	(1)		1
	3. SI	nows <b>Email</b> , Firs	st Name and	d Date of Birt	<b>th</b> in that orde	r (1)	1
	4. D	isplays the corre	ect <b>6</b> record	5 (1)			1
				- ( )			1
	5. So	orted in ascendi	na order of	Date of Rirth	- Zigay down	to Lupe (1)	_
	J. 30		ng older of		∠iggy uown		1
		- turing t					
	6. N	o truncation (1)					1

<b>A2</b> e (i)	Identify the type of relationship that will be needed between the <b>HOTEL</b> table and the <b>BOOKING</b> table.	
	One to many.	1
	Accept alternative notations e.g. 1:M, 1:N	
e (ii)	Explain <b>one</b> 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 <b>one</b> reason why <b>Like</b> " <b>*haus*</b> " 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 spelling and case	
	The home page design:	
	Company Name	
	Page Title	
	Introductory Text Image	
	Ноте 200рх х 200рх	
	Ski Lessons	
	Image 200px x	
	200px	
	Please contact us on (email address) for further information	
	The home page:	
	The nome page.	
	1. <h1> (Company Name – allow TSR) <b>and</b> <h2> (Page Title – accept any</h2></h1>	1
	appropriate page title) – h1 <b>and</b> h2 must be included on the correct sections – company name and page title (1)	
	sections – company name and page title (1)	
	2. <u> used on Page Title (1)</u>	1
	3. Background - Blue Gray (#98AFC7) <b>and</b> Introductory Text - White	1
	(#FFFFFF) – allow the background mark if the background for the boxes	
	in the design use the correct colour (1)	
	4. Links appear on the left of the page <b>and</b> appropriate text is in the	1
	centre <b>and</b> images (any number of images) are on the right of the page (1)	
	5. All images are the correct size (200px x 200px) (1)	1
	6. Images are vertically aligned (1)	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. Home page consistent with the design structure – ignore the text in the footer (1)	1

A3	Page title – Reference to Lessons (1)						
a (ii)			and an advertised to a state		1		
	I. HIML ta	ble included (do	not award marks for a tab	ie created in word):	1		
	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						
	<ol> <li>Appropriate use of table elements – award the mark if an appropriate table has been created in HTML (1)</li> </ol>						
	3. Border s	et to any approp	oriate px size (1)		1		
		ntent - relevant SITE document (	information included in the 1)	e table taken from	1		
a (iii)	HTML shows functioning link from <b>Home page</b> to <b>Ski Lessons</b> page <b>OR</b> functioning link from <b>Ski Lessons</b> page to <b>Home page</b>						
	<a href="xxxxxx&lt;/th&gt;&lt;th&gt;.html">xxxxxx<!--</th--><th>a&gt;</th><th></th><th></th></a>	a>					
b	HTML changes: 1. Any text	element colour	changed to – Indigo (#4B0	082) (1)	1		
	2. Right alig	gn the contact d	etails (email address) (1)		1		
	Award these marks if the candidate has presented the final web page with the changes showing. Accept the change of text colour if it shows blue.						
	Do not award the right align mark for anything other than the footer section.						
c (i)	<img src="slalon&lt;/th"/> <th>n.jpg alt="Image</th> <th>e of skier"&gt;</th> <th></th> <th></th>	n.jpg alt="Image	e of skier">				
	State <b>one</b> reasor	n why the code w	ill not display the image				
		around the imag m.jpg" alt="Imag	ge – the image will not disp ge of skier">	olay	1		

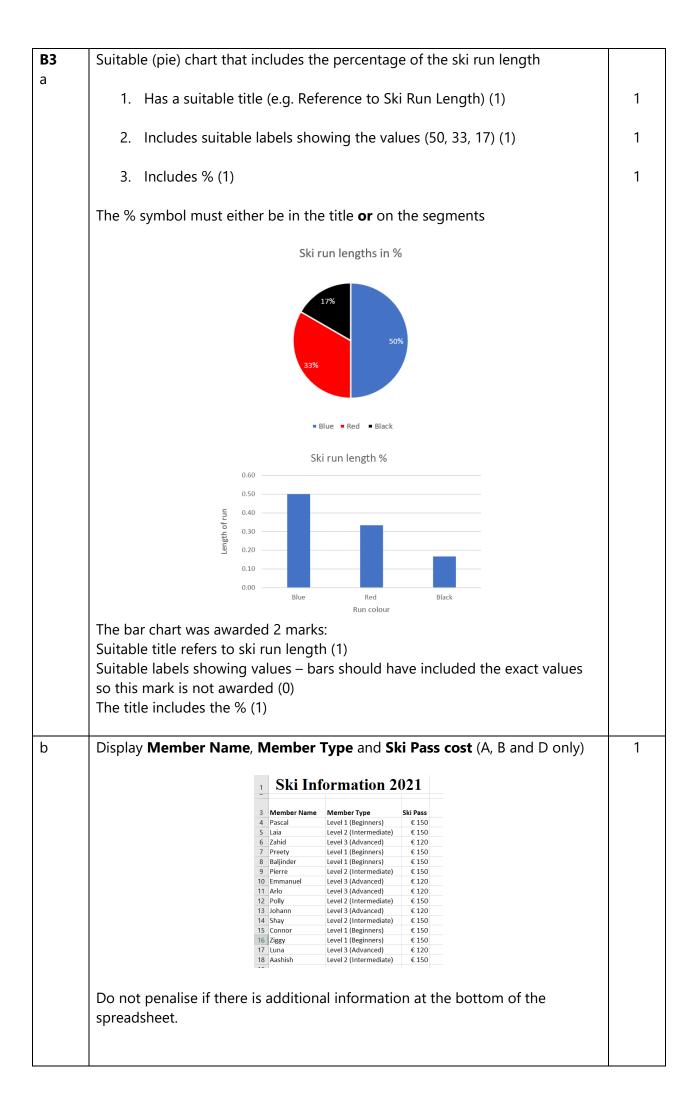
	Easily follows house style The developer can concentrate on the content / does not have to think about	
	To ensure consistency between pages Saves time (accept quicker)	1
c (iii)	Give <b>one</b> advantage of using a template when setting up web pages	
	Images are often used to provide information that 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
<b>A3</b> c (ii)	Explain <b>one</b> reason why alt text has been used on the image	

			Answe	r				Marks
	Section B							
B1	Spreadsheets							
		A	В	с	D	E		
			Ski Informa		21			
	1	, ,			<b>41</b>			
	3	Member Name	Member Type	Equipment Hire	Ski Pass	Total Cost		
	4		Level 1 (Beginners)	€ 230	€ 150	€ 380		
	5		Level 2 (Intermediate)	€ 280				
	6		Level 3 (Advanced) Level 1 (Beginners)	€ 340 € 230				
	8		Level 1 (Beginners)	€ 230				
	9	-	Level 2 (Intermediate)	€ 280				
	10	Emmanuel	Level 3 (Advanced)	€ 340	€120	€ 460		
		l Arlo	Level 3 (Advanced)	€ 340				
		2 Polly	Level 2 (Intermediate)	€ 280				
		3 Johann 1 Shay	Level 3 (Advanced)	€ 340 € 280				
		Gonnor	Level 2 (Intermediate) Level 1 (Beginners)	€ 280		i i		
		5 Ziggy	Level 1 (Beginners)	€ 230				
		7 Luna	Level 3 (Advanced)	€ 340	€120	€460		
		3 Aashish	Level 2 (Intermediate)	€ 280	€ 150	€430		
	19							
	20	) Total Cost of Eq	uipment Hire	€ 4,250		1		
a (i)	New row inserted Information 202		op of the spread	sheet and	l inclu	de the l	neading 'Ski	1
		<u> </u>						
a (ii)	Row 1 merged		ed (A1:E1)					1
a (ii) a (iii)	Heading format	and centre	ed (A1:E1)					1
	Heading format • serif	and centre	ed (A1:E1)					
	Heading format	and centre	ed (A1:E1)					1
	Heading format serif bold	and centre	ed (A1:E1) an the rest of the	e text				1
	Heading format • serif • bold	and centre		e text				1
a (iii)	Heading format • serif • bold • larger si Header:	and centre tted: ze font tha						1
a (iii) a (iv)	Heading format serif bold larger si Header: Completed: dat	and centre tted: ze font tha e of exam	an the rest of the (from 26/04/202	21)				1
a (iii)	Heading format serif bold larger si Header: Completed: dat New row inserte	and centre tted: ze font that e of exam	an the rest of the (from 26/04/202 duced height (as	21) row 2)				1 1 1 1
a (iii) a (iv)	Heading format serif bold larger si Header: Completed: dat New row inserte	and centre tted: ze font that e of exam	an the rest of the (from 26/04/202	21) row 2)	n mac	de to th	e height	1 1 1 1

B1	Cost of Equipment Hire	
b (i)	1. Use of correct function (=VLOOKUP <b>or</b> =LOOKUP) for Equipment Hire	1
	2. Use of correct lookup value (B4) for Equipment Hire	1
	<ol> <li>Use of correct table array (Details!A\$14:B\$16) / lookup vector (Details!A\$14:A\$16)</li> </ol>	1
	<ol> <li>Use of correct column index number (2) OR use of correct results vector (Details!B\$14:B\$16)</li> </ol>	1
	Examples: =VLOOKUP(B4,Details!A\$14:B\$16,2,0) <b>OR</b> =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%, <b>OR</b> Details!B\$18*80%,	1
	Details!B\$18)	1
	Accept without use of absolute referencing	
b (iii)	<b>Total cost of the Equipment Hire and the Ski Pass</b> =C4+D4	1
	Allow =SUM(C4:D4)	I
b (iv)	Replicate functions <b>and</b> formulae for <b>all</b> other members using absolute cell referencing: • Equipment Hire • Ski Pass • Total Cost (absolute referencing not required)	1
b (v)	Total cost of Equipment Hire	1
	=SUM(C4:C18)	1
l	Allow the function to appear in any cell	

B1	Spreadsheet formatting:						
С	1. Cur	rrency showing € w	vith no decimal	places			1
	2. Headings wrapped to use space efficiently – allow for one heading						
	3. All	data visible – cell d	contents, colum	nn labels (no t	runcation	)	1
	4. Row and column headings and page header displayed						1
		A	В	С	D		
		1 Ski runs					
		2 Total length in km	108				
		3					
		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%	_	
		9					
		10 Average ski run	36				
		11	50				
d (i)	DETAILS w	vorksheet:					
	=B5*100/\$ =B5*100/B	\$2					1
		'B2 then the use of		rmat			
d (ii)	Average le =AVERAGE	ength of all the sl E(B5:B7)	ki runs				1
					Total	for task B1	21

B2	Filtered to show only Le	vel 3 members				1
	Displaying only the <b>Me</b>	mber Name and 1	Total Cost			1
	۷.					
	3	Member Name 💌	Total Cost	Ŧ		
	6	Zahid	€4	160		
	10	Emmanuel	€4	160		
	11	Arlo	€4	160		
	13	Johann	€4	160		
	17	Luna	€4	160		
	Do not penalise if there	is data at the bott	com of the	of t	he spreadsheet	
					Total for Task B2	2



B3		
c (i)	A B 1 Hotel Star Ratings	
	2     Hotel Name     Star Rating       3     Das Konservatorium     5	
	4 Haus Montain 3	
	6 Keltisch Resort 5	
	7 Hotel Flussfer 4 8 Haus Wald 4	
	9 Hotel Ski 5 10 Hotel mit grünem Blick 5	
	11Skigebiet412Die Hütte3	
	13 Haus Sloeden 5	
	14         Gurgl ski resort         3           15         =COUNTIF(B3:B14,B7)	
	=COUNTIF(B3:B14,B7) has been used in cell B15	
	For the description, award <b>one</b> mark for any 3 of:	
	Tor the description, award <b>one</b> mark for any 5 of.	
	1. It looks in the range of cells R2 to R14	
	1. It looks in the range of cells B3 to B14	1
	2. It compares the value of the cells to match the content of cell B7	1
	(which is 4 star rating)	
		1
	3. It returns a value of 3	
	OR	
	1. It compares the values in the range B3:B14	
	2. With the value in B7	
	3. And returns the number of matches	
	Must refer to given example rather just generic comments	
	Must refer to given example rather just generic comments	
- (::)		
c (ii)		
	ASki_run_information - : × ✓	1
	A B 1 Ski runs	
	2 Total length in km 108	
	3 4 Ski run type Length in km	
	5 Blue 54	
	6         Red         36           7         Black         18	
	State the feature labelled A	
	Named range	
	Total for Task B3	8
		U

B4	1.	Heading (Welcome to the Ski Run) <b>and</b> sub-heading (Ski lessons offered:) formatted	1
а		appropriately	
	2.	Use of bullets/sub bullets to match instructions	1
		Welcome to The Ski Run Ski lessons offered:	
		<ul> <li>private</li> <li>must be pre-booked</li> </ul>	
		o requires a 10% deposit	
		<ul> <li>group         <ul> <li>beginners</li> <li>intermediate</li> <li>advanced</li> </ul> </li> </ul>	
		Sam's Ski School	
		Private Ski Lessons2020/20212 hours am200€pm210€3 hours am300€pm220€4 hours am300€ $368€$ $5$ hours am5 hours am368€ $420€$ $5$ days6 hours am420€ $282€$ I day1 day100€5 days2 16€6 days308€4 days254€Extra day50€	
	3.	Appropriate number of columns and rows (1)	1
	4.	Any evidence of merging cells (1)	1
	5.	<ul> <li>Cells merged follow the design (1)</li> <li>Sam's Ski School</li> <li>Private Ski Lessons</li> <li>Group Ski Lessons</li> <li>Blank section</li> </ul>	1
	6.	Sam's Ski School heading – centred horizontally <b>and</b> vertically (1)	1
	7.	<ul> <li>Other alignment (1)</li> <li>Private Ski Lessons and Group Ski Lessons – left aligned</li> <li>Dates appear to the right of the rows</li> </ul>	1
	8.	Text colour – appropriate use of colour contrast on the content of the cells (1)	1
	9.	Sam's Ski School – size 28 <b>and</b> serif font (1)	1
	10	. Appropriate use of shading that follows the design (1)	1
	11	<ul> <li>Content – time and money cells (1)</li> <li>Sans-serif font</li> <li>Smaller font size than headings</li> <li>Euro symbol</li> </ul>	1
	12	. The table follows the provided design (1)	1
	13	. The fact sheet is fit for purpose (1)	1

<b>B4</b>	Explain <b>one</b> 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 <b>one</b> 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 <b>one</b> 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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