

Mark Scheme (Results)

November 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.

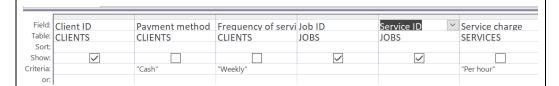
Tas k	Answer	Mark s
A1	Graphics	
a	1. crop the image – bottom quarter removed (1)2. make it black and white (1)	
	3. add the text <i>Digging</i> onto the image – must be spelt correctly but ignore case (1)	3
	Original IMAGE ONE	
	Cropped IMAGE ONE	
b	Image created: 1. Correct dimensions (1920 x 1080 px) shown (16:9 ratio) (1)	
	 Image includes all 3 shapes: rectangle (or square), circle (or oval) and arrow (1) 	
	3. Image combines any shapes into an image that represents the theme and suitable for use as a slide background) (1)	
	4. Image includes company name in a serif font (1) – do not accept TLA	4

c (i)	Give two features of vector images	
	Made up of lines/curves/points/shapes	2
	 Image can be enlarged without loss of quality/distortion 	
	 Image can be made smaller without loss of detail 	
	Small file size/takes up little storage space	
	Based on mathematical equations	
	Uses co-ordinates	
c (ii)	Explain one reason why bitmaps are suitable for photographic images. Bitmap images are detailed (1) because they have a high pixel count/have high resolutions (1)	
	Bitmap images look realistic (1) as they represent lots of colours/can have a large colour depth (1)	
	Total for Task A1	11

B1	Presentation	
a (i)	1. Slide(s) set to the correct size – 16:10 (1)	
	2. Slide title – size 40 and italic (1)	
	3. Footer – email address - medi@tla.net (1)	
	4. Footer – date and time (1)	4
а	Slides 1 and 2:	
(ii)	1. Both slides created from master slide (1)	
	 Given text on Slide 1 (We offer a wide range of services to transform your garden) – do not penalise for spelling/case(1) 	
	3. Given text has a dark background and white font (1)	
	4. 2 relevant images placed on presentation – either or both slides (1)	
	5. Action button on either slide – clear to see/obvious to the user (1)	
	6. Link to either slide 1 or slide 2 (1)	
(iii)	 Correct title on at least one slide (WELCOME TO TLA – Slide 1 or SERVICES – Slide 2) – must be spelt correctly (1) 	
	2. Animation on DIGGING image (1)	
	3. Animation lasts for 6 seconds (1)	
	4. Slide 1 is fit for purpose – text is in an appropriate position, images do not overlap text/other images, images are an appropriate size (1)	10
b	Both slides (fully visible) printed with speaker notes on Slide 1: Welcome all delegates to the presentation Inform them of some of the services on offer including lawncare, makeover, mowing and hedge trimming.	1
	Slides do not need to be printed on the same page.	
С	Give two advantages of using a master slide when creating a presentation. Saves time when creating the slides Ensures consistency between slides Easily follows house style Once created they don't need to worry about placement and style	2
	Total for Task A2	17

А3	Database		
а	Data entry form:		
	1. suitable title – includes the and case	word Services (1) – <i>ignore spelling</i>	
	2. centre aligned fields (1)		
	3. light background – other th	nan white (1)	
	4. automated date (1)		4
b	Data entry via form.		
	Field Name		
	Service ID P	L1	
	Service P	lanting	
	Calculation of cost P	er hour	
	Aftercare advice Y	es	
	Discount available N	lo	
	Award 2 marks for 5 correct entries Award 1 mark for 3 or 4 correct entri- Award no marks for 0, 1 or 2 correct		2
	Award these marks from the form or	table view.	

A3 c Query:

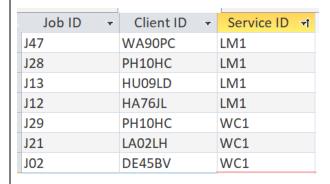


Correct 'criteria' row shown in design view

- 1. Award 2 marks for all 3 correct criteria cash, weekly, per hour
- 2. Award 1 mark for 2 correct criteria

 Award no marks for 0 or 1 correct criteria

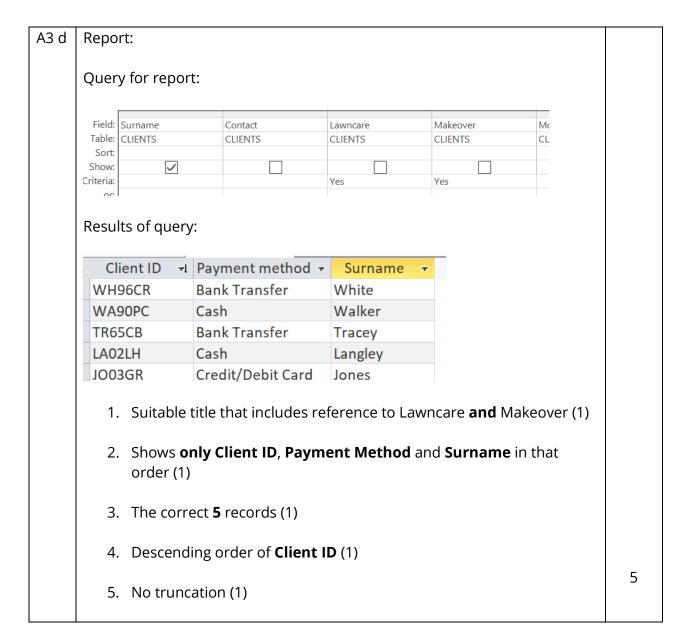
Result of Query:



- 3. Only correct fields 'shown' **Job ID, Client ID** and **Service ID** in any order (1)
- 4. Fields displayed in the correct order (1)
- 5. **Service ID** field sorted in ascending order (LM1 down to WC1) (1)

3

2



A3 e (i)	Give one reason why number is not used as a data type for a telephone number in a database. The database does not recognise the leading 0 of the phone number Never likely to perform a calculation with a telephone number May have symbols such as + (which cannot be stored in a number field)	1
e (ii)	Identify one foreign key in the linked tables. Service ID Client ID	1
e (iii)	Explain one reason why the Contact field in the CLIENT table uses lookup validation. Less chance of errors (1) because the user can only choose from a list/does not have to key in the options (1)	2
e (iv)	Explain one reason why the three tables in the GARDENING SERVICES database are related. Reduces errors (1) because duplicate records will be prevented (1) Minimised redundant data (1) because they are linked by the keys (1) Saves time (1) because you don't have to key in the same information repeatedly (1) More accurate (1) as you only have to update in one table (1) You can delete one job (1) without a service or client being deleted (1)	2
	Total for Task A3	22

Task			Į.	Answer			Mark s
B1	Spreadsheets						
	Garden Services Sales for Week 21						
	Client Name	Client ID	Service		Length in metres		'
	Mr White	Wh96CR	Makeover	Size 2		£500.00	
			Lawncare	Size 2		£72.00	_
			Hedge Trimming		24	£96.00	
			Cuttings Disposal		24	£24.00	
	Cost of service	es:				£692.00	_
	Tax amount:					£138.40	_
	Cost of service					£830.40	_
	Total cost of s	ervices inclu	ding discount:			£705.84	_
a (i)	New row i	nserted v	vith heading 'G	arden S	ervice Sales fo	r Week 21'	1
a (ii)	Merge and	d centre c	ells A1:J1 (allov	v merge	within range	of column F to J)	1
	_		n dark grey sha	_			1
	Award ma	rk if the c	cell is any colou	r other	than white		
a (iii)	,	_	ize – 18, white, the text in the		cell is larger th	nan the rest of the	1
a (iv)	Footer inc	ludes the	(automated) d	ate			1
L (1)	Cook of NA		//				
b (i)	1. Use	e of corre	/Lawncare ct function (=V ost or Lawncar		or =LOOKUP) for either	1
		e of corre vncare Co	ct lookup value ost (D4)	e for eit	her Makeover	Cost (D3) or	1
			ct table array (A7) for either M		,	,	1
	 Use of both correct column index numbers (3 and 4) OR use of both correct result vectors OR use of correct results vector (Details!C3:C7) and (Details!D3:D7) 						1
		Cost =VL	OOKUP(D3,DE ⁻ OOKUP(D4, DE				
			OKUP(D4,DET/			:C7)	
			OKUP(D4,DETA				
	-		ute referencing	_	Lawaren a-ti-	VI OOKUD (O)	
	ignore nar	neu rang	es and absence	e or fina	i argument in	VLUUKUP (,U)	

B1	Cost of Hedge trimming	1
b (ii)	=E5*DETAILS!C9	'
(1)		
	Cost of Cuttings removal	1
	=E6*DETAILS!C10	
b (iii)	Cost of services	
	=SUM(F3:F6)	1
	Allow F7 – blank row	
b (iv)	Tax amount	
S (1V)	=F8*DETAILS!D12	1
		·
	Cost of services including Tax	
	=F8+F9	1
b (v)	Total cost of services including discount	
	=IF(F10>800,	1
	F10-F10*DETAILS!E14 – Do not allow 15% for DETAILS!E14	1
	,F10) or ,0)	1
	Allow follow through (for marking points 2 and 3)	
	Allow follow through (for marking points 2 and 3)	
С	Currency showing £ with two decimal places	1
	Total cost of services including discount stands out from other	1
	monetary amounts – eg, colour, bold, larger size, border £705.84	
	All data visible – cell contents, column labels (no truncation) – look for	1
	Client Name and Length in metres as these were truncated on the original	
	copy of the spreadsheet	
	Row and column headings	1
	Now and column neadings	'
	Total for task B1	21
B2	Filtered to show only Size 2 gardens and costs	1
	Displaying only the Size and costs	1
	A C D E	
	Service st detail •	
	Size 2 £500.00 £72.00	
	Do not penalise if there is data at the bottom of the of the spreadsheet	
	(other costs)	
	Total for Task B2	2

£1,200.00 £1,000.00 £800.00 £400.00 £200.00 £0.00	ts for Garden Sizes Size 2 Size 3 Size 4 Size 5	
£800.00 £600.00 £400.00 £200.00		
Size 1		
	Garden Size Makeover Lawncare	
Suitable chart – bar chart different sized gardens	art showing Lawncare and Makeover for s (1)	
a 2. Title (eg Reference to G (Garden Size) and y (Co	Gardens/Garden size and Cost) and labels – x osts) axis (1)	
	labels – Makeover and Lawncare (1)	
4. Displays major and mi	nor gridlines (1)	4
1 0 2	S used for Task 3bi and 3bii A B C Garden shed size in metres Length Width Height 4 3 3	
B (i) State the result of using the leader 26 - accept 27 as there may be Accept - e.g. 'provides the number 19 and 19 and 19 are 19 ar	·	1
b (ii) Describe how the function =P It multiplies the (three) cells to then multiplies the answer by	ogether (1)	2
(A4*B4*C4) * 2 (4 x 3 x 3) x 2		
Do not award a mark if the an	nswer has been given.	
formula/ accept examples =A1+A2+A3+A4+A5 would be	ctions in spreadsheets. see to save time entering loads of data into a simplified to become =SUM(A1:A5) be simplified to become =AVERAGE(A1:A5)	1

	Total for Task B3	8
B4	Leaflet	
a (i)	Page 1 Text: 1. Do you need TLA? - set as sub-heading - suitable size and position (1)	
	2. Heading and subheading alignment changed – other than left (1)	
	3. Bullets (changed to) numbered bullets (1)	
	4. Line spacing for 'After the visit' paragraph changed to 1.5 (1)	
	5. Appropriate image added to the 'After the visit' paragraph to the right of the text (1)	
	Table: 6. Row 1 merged and text centre aligned (1)	
	7. Row 1 shaded (1)	
	8. Row 4 split into two columns with the text 'Watering regime' (1)	9
	9. Outside border set to thicker/different style line to the default (1)	J
(ii)	Page 2. 1. Appropriate image inserted in the right hand cell of the table - resized to fit, not heavily distorted (1)	
	2. Callout added in front of the inserted image with text describing the image – needs to have 'callout' format – e.g. pointing arrow/line (1)	
	3. Callout formatted – dark green background, white font colour (1)	
	4. Callout text – size 14 (1)	
	5. Automatic page numbers added to the footer (1)	5

	Total for Task B4	19
	aids collaborative working others can understand the hierarchy of the structure (1)	
	it is easier to find at a later date	∠
	To ensure work relating to the same subject area is stored in the same place (1) because	2
b (iii)	Explain one reason why it is important to use folder structures when organising work.	
h	Evolain and reason why it is important to use folder structures when	
	Any changes to work are saved as you go along	
b (ii)	Give one reason why it is important to save work regularly. So you don't lose your work if there is a problem with your computer	1
h (ii)	Civa and reason why it is important to save work regularly	
	Make text sizes/line spacing/fonts/colours more consistent (1) so it aids readability/communication of the content (1)	
	Change the colour/Use a better contrast for the green text on page 2 (1) because it is too light to be seen clearly/to improve accessibility (1)	
	and images/reduce the amount of wasted space (1)	
	Add another image to page 2 (1) so there is a better balance between text	
	Examples:	
	improve the leaflet (1)	
(i)	Allow any suitable improvement (1) then a comment on why it would	2
B4b	Explain one improvement you would make to the leaflet.	

