CAMBRIDGE
International Education

Cambridge International AS & A Level

INFORMATION TECHNOLOGY **9626/02**

Paper 2 Practical **October/November 2024**

MARK SCHEME

Maximum Mark: 90

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2024 series for most Cambridge IGCSE, Cambridge International A and AS Level components, and some Cambridge O Level components.

Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptions for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

Question	Answer	Marks
n24chain1_ values		
1(a)	***Merged cells***	**3**
	Correct cells merged & centre aligned	
	… black text on yellow background	
	… 12 and16 point respectively, bold, sans-serif font	
1(b)	***Formatting***	**1**
	Rows 2,3 and 4 formatting - Correct grey cells, bold, centre aligned A3:B4, E2:R4, T2:V2 T18:U18	
1(c)	***Formatting***	**1**
	Cells D2: D4 with bold white text centre aligned on black background	
1(d)	***Worksheet name***	**1**
	Appropriate worksheet name set e.g. chain/necklace	
1(e)	***Column widths***	**1**
	Columns C and S very narrow	

Question	Answer	Marks
n24chain1_ formulae		
2(a)	***Cell E18***	**2**
	=E5 …	
	… * $U$19	
2(b)	***Cell E18***	**1**
	Replicated to R29 for all other chains	

Question	Answer	Marks
n24chain1_ formulae		
3(a)	***Cell E31***	**1**
	= E5*…	
3(b)	***Function and reference***	**3**
	… HLOOKUP(…)	
	… E$2,	
	… with absolute reference on 2 only	
3(c)	***Index and array***	**3**
	… $T$2:$V$3	
	…,2	
	…,0	
3(d)	***Cell E31***	**1**
	Replicated to row 42 for all other sizes	

Question	Answer	Marks
n24chain1_ formulae		
4(a)	***Cell B5***	**4**
	=ROUNDDOWN(…)	
	A5	
	*2.54	
	,0	
4(b)	***Cell B5***	**1**
	Replicated to row 42 for all other sizes	

Question	Answer	Marks
n24chain1_ formulae		
5(a)	***Cell E4***	**5**
	=LEFT(…)	
	E2	
	… ,1	
	&	
	E3	
5(b)	***Cell E4***	**1**
	Replicated right to column R	

Question	Answer	Marks
n24chain1_ formulae		
6(a)	***Formatting***	**2**
	All weight cells formatted to 3 decimal places	
	All currency cells in $ to 2 decimal places including T3:V3	

Question	Answer	Marks
n24chain1_ User Interface worksheet		
7(a)	***New Worksheet***	**1**
	New worksheet **User Interface** added to workbook	

Question	Answer	Marks
n24chain1_ User Interface worksheet		
8(a)	***Row 1 formatting***	**1**
	Row 1 formatted to match image	
8(b)	***Row 2 formatting***	**2**
	Row 2 text merged and italic	
	Row 2 with wrapped text	
8(c)	***Row 3 height***	**1**
	Row 3 half height of row 4	
8(d)	***Text & Cells***	**2**
	All text 100% accurate and fully visible	
	Cells A4:A9 right aligned	

Question	Answer	Marks
n24chain1_ User Interface validation		
9(a)	***Cell B4***	**3**
	Data validation selected to obtain list …	
	… from Chain worksheet	
	… with cell range E4:R4	
9(b)	***Cell B5***	**2**
	Data validation selected to obtain list from Chain worksheet …	
	… with cell range B5:B16 or B18:B29 or B31:B42	

Question	Answer	Marks
n24chain1_ User Interface formulae		
10(a)	***Cell B7***	**4**
	=XLOOKUP(…)	
	… B4 …	
	… ,Chain!E4:R4 …	
	… ,Chain!E2:R2	

Question	Answer	Marks
n24chain1_ User Interface formulae		
11(a)	***Cell B8 INDEX***	**2**
	=INDEX(…)	
	Chain!E18:R29	
11(b)	***MATCH 1***	**4**
	,MATCH(…)	
	B5	
	,Chain!B5:B16	
	,0	
11(c)	***MATCH 2***	**4**
	,MATCH(…)	
	B4	
	,Chain!E4:R4	
	,0	

Question	Answer	Marks
n24chain1_ User Interface formulae		
12(a)	***Cell B9 INDEX***	**2**
	=INDEX(…)	
	… Chain!E31:R42	
12(b)	***MATCH 1***	**4**
	… ,MATCH(…)	
	… B5	
	… ,Chain!B31:B42	
	… ,0	
12(c)	***MATCH 2***	**4**
	… ,MATCH(…)	
	… B4	
	… ,Chain!E4:R4	
	… ,0	

Question	Answer	Marks
n24chain1_ User Interface worksheet		
13(a)	***Column B***	**1**
	Appropriate formatting applied to column B	

Question	Answer	Marks
n24Evidence_ spreadsheet modelling		
14(a)	***Modelling 1***	**2**
	Code SE3, length 63cm …	
	… results correct	
14(b)	***Modelling 2***	**2**
	Code GC2, length 50cm …	
	… results correct	

Question	Answer	Marks
n24Evidence_ spreadsheet modelling		
15(a)	***Modelling 3***	**2**
	Gold cost $1900 / ounce, code GC2, length 50cm	
	Results correct	

Question	Answer	Marks
n24audio_ .wav and **.ogg**		
16(a)	***Speed***	**2**
	Speed of whole track changed …	
	… to 2 × original speed	
16(b)	***Pitch***	**2**
	Pitch of the whole track changed …	
	… from the key of B into the key of **C♯/D♭**	
16(c)	***Other edits***	**3**
	Length trimmed to 35 seconds	
	Stereo mixed down to mono	
	Fade out last 2 seconds	
16(d)	***Export***	**2**
	Exported as **n24audio_.ogg**	
	Exported as **n24audio_.wav**	

Question	Answer	Marks
n24Evidence_ Data Dictionary		
17(a)	***Data Dictionary***	**1**
	Appropriate table name selected	
17(b)	***Field names***	**1**
	All fields with appropriate short field names containing no spaces	
17(c)	***Customer number field***	**3**
	Numeric	
	Integer	
	Primary key	
17(d)	***Order_Date/First_Order***	**1**
	Date data type	
17(e)	***Other 6 fields***	**1**
	Alphanumeric data types	