

Cambridge International AS & A Level

INFORMATION TECHNOLOGY

Paper 4 Advanced Practical MARK SCHEME Maximum Mark: 110 9626/04 May/June 2021

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 May/June 2021 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 descriptors 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.

Task 1 – Vector Graphics



Correct shield shape – shoulders align – curves to central peaks -straight sides <i>Curves to bottom should only start at last stud</i>	1
Symmetrical top Only if similar shape to example	1
Symmetrical bottom Only if similar shape to example	1
Correct number of studs -10	1
Studs are correctly positioned – 1 bottom and 1 top 3 vertical – 2 on curves	1
Studs are aligned horizontally – and central in rim.	1
Studs appear domed	1
Rim is the correct thickness – Equal widths	1
Rim is gold	1
Rim gradient fill is vertical Can be quite faint but must be apparent	1
Rim gradient is light-dark gold – vertical Can also be slightly horizontal as long as bottom is darker than the top	1
Panel is silver/grey	1
Panel gradient fill is horizontal	1
Gradient is dark-light-dark	1
Gradient is offset	1
Gradient is offset to right Can be very slight, could be central if lighter to right	1
Bolt is added	1
Bolt is the correct shape – 'Z' angles are equal	1
Bolt has a gradient fill	1
Bolt fill is correct – vertical white/light to dark gold	1
Bolt position – centred	1
Bolt proportions – correct width and length	1
Shadow is added to shield – not distinct shape – must look as if it fades – at least slightly	1

Shadow is mostly right and down with correct proportions	1
All Shield properties are correct and in proportion (inc. shadow)	1
	[25]

Task 2 - Animation



Shield used – must animate with digits	1
Shield is intact – no visible split	1
Shield appears cleanly turned, not just narrowed or skewed	1
Rim, Panel, Studs, Bolt are intact and in the correct place	1
All turned Shield properties match the QP and are in proportion	1
Mask or layers are used to create impression of digits disappearing	1
Mask/Layers create the impression of digits disappearing into the shield	1
Mask/layers create the impression of digits re-appearing	1
Mask/Layers are undetectable	1
Moving – stream of digits – loop at appropriate speed	1
Digits are the correct size – not convincingly too big/small	1
Digits travel – roll in – continuously undetectable loop or hiatus	1
Travel is smooth at a constant speed	1
Digits roll left to right – horizontally only.	1
Red digits appear – roll in – from left the red digits must roll in and not just appear.	1
Rolling digits appear to be split by the shield	1
Digits split at the centre of the shield	1
Digits roll in front of and behind the shield as a stream	1
Travel is uninterrupted when the 'pop' appears (not if static 'pop') 'pop' must not restart the animation	1
No red digits after 'pop' (or shield) – stream must appear to continue	1
Pop appears in an appropriate place in the stream.	1
Pop appears over the red digits	1
Pop obscures all the red digits	1
Animation is saved as .gif or .swf	1
Animation is $640px \times 480px$	1
	[25]

Task 3 – Spreadsheet challenge

A A	B C	D	E	F	G H I		
2			City		Total		
3 new row	s are add	ed			· · · ·	1	
Row 2 – is Twice default height							
Cells F2, H2 Borders – Thick – Black – Suitable Column widths – space for 2 digits in H							
Labels E2, G2 – City – Total – 100% accurate							
Labels E2, G2 Format – Align Right – 24pt – Bold – Black – Sans							
Text in F2	AND H2	format –	Align Centre – 24pt –	Bold – Red – San	IS	1	
Image A B C D E F G H 1 2 1 1 1 1 1 1 1 1 1 3 3 1 1 1 1 1 1 1 1 2 3 1 1 1 1 1 1 1 1 3 1							
Condition	al formatti	ng works	for City column -(any	city)		1	
City turr	is – Red F	- ill /White	Text			1	
Works f	or the City	Column	for full data set – – co	onsistent White on	Red	1	
Formatting	g works fo	or selecte	d City Whole Row			1	
Formatting	g works fo	or all table	e – A5:G105 only – (n	ot F2)		1	
Uses 'For	mula to de	etermine.	' – (not 'Cells that co	ontain')		1	
Single Ru	le for who	le Table ·	-(\$A\$5:\$G\$104)			1	
Single	range is u	sed for fo	ormula – (\$A\$5:\$G\$10	04)		1	
ParisTotal3CityZipCodeÉVREUX27000PARIS59280MENDE48000LA ROCHE-SUR-YON85000ANGLET64600PARIS7500921000							
Rows for A	ANY selec	cted city r	marked ,not manually,	in Column H		1	
Formula	replicate	d for all ro	ows			1	
Rows n	umbered s	sequentia	Illy and automatically	n Column H		1	

1

1

1

...Efficient numbering method used

Count correct for any City in H2

...Valid formula used

Image: Section of the sectio	⊿ A	В	С	D	E	F	G	Н	Т	J K	L	М	N	0	Р	Q		
Image: Section	2				City	Bordeaux	Total	8										
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Task 4 – Mail Merge

Number	Title	Given_Name	Surname	Anti-Virus_Suite	Member_Since	Subscription_Expires	Years	Offer_Code
39	Ms.	Evie	Bishop	PremierShield	21/06/2018	21/06/2021	3	P3
66	Ms.	Millie	Williamson	WebShield	08/06/2018	08/06/2021	3	W3
156	Mrs.	Ruby	Simpson	TotalShield	20/06/2019	20/06/2021	2	
205	Mr.	Liam	Yates	TotalShield	29/06/2018	29/06/2021	3	Т3
273	Mrs.	Amber	Finch	WebShield	12/06/2019	12/06/2021	2	
426	Mr.	Charlie	Harvey	WebShield	26/06/2018	26/06/2021	3	W3
760	Mr.	Sam	Booth	TotalShield	14/06/2018	14/06/2021	3	Т3

Years	Offer_Code
=IF(J40="","",INT((J40-I40)/365.25))	=IF(OR(J40="",K40<3),"",LEFT(H40,1)&K40)
=IF(J67="","",INT((J67-I67)/365.25))	=IF(OR(J67="",K67<3),"",LEFT(H67,1)&K67)
=IF(J157="","",INT((J157-I157)/365.25))	=IF(OR(J157="",K157<3),"",LEFT(H157,1)&K157)
=IF(J206="","",INT((J206-I206)/365.25))	=IF(OR(J206="",K206<3),"",LEFT(H206,1)&K206)
=IF(J274="","",INT((J274-I274)/365.25))	=IF(OR(J274="",K274<3),"",LEFT(H274,1)&K274)
=IF(J427="","",INT((J427-I427)/365.25))	=IF(OR(J427="",K427<3),"",LEFT(H427,1)&K427)
=IF(J761="","",INT((J761-I761)/365.25))	=IF(OR(J761="",K761<3),"",LEFT(H761,1)&K761)

MergeData.xlsx used for calculations – must be correct filename Must see some attempt or correct data	1
Valid Calculation of Years of subs shown – (Must exclude Free members)	1
Valid method for Offer code – Concat. 2 single CHR elements	1
Correct YEAR Integer values	1
Correct codes – including case and spacing	1
Viicrosoft Word X	

Microsoft Word

1

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Opening this document will run the following SQL command: SELECT * FROM 'UK_CustomersWorkedS' WHERE ('Anti-Virus Suite' <> 'Free' OR 'Anti-Virus Suite' IS null) And 'Subscription_Expires' < #30/06/2021# Data from your database will be placed in the document. Do you want to continue? Yes No

SEFORMAT }

{ MERGEFIELD "StreetAddress" } { MERGEFIELD "Citv" }

{ M { SKIPIF WebShield = "Free" }

Dear { MERGEFIELD Title } { MERGEFIELD GivenName } { MERGEFIELD Surname }

Evidence of selection – in Spreadsheet, SKIPIF or details in SELECT FROM box		
date format in letter – dd MMMM – yyyy – 28 April – 2021 inc. spacing	1	
(No title) Given_Name (space) Surname	1	
Address fields – Street_Address, City	1	
Zip_Code	1	
Layout for whole address block – on new lines	1	
Title, Given_Name, Surname mergefields inserted	1	
Title(space)Given_Name(space)Surname – and the only text on the line	1	

(space)AntiVirus_Suite version(space)mergefield inserted	1
(space)Subscription Expires mergefield inserted & formatted to – dd-MMM	1

{ IF { MERGEFIELD Offer_Code } = "P3" "As a reward for your loyalty we can offer you a free download of our new MalwareZap application. Just visit our website for instructions." "{ IF { MERGEFIELD Offer_Code } = "T3" "As a loyal customer we are happy to offer you a free upgrade to the PremierShield suite for the next year." "{ IF { MERGEFIELD Offer_Code }= "W3" "As a loyal customer we are happy to offer you a free upgrade to the TotalShield suite for the next year." "{ IF { MERGEFIELD Offer_Code } = "" "We hope you will continue to use our award-winning software." "" }" }" }

Conditional field(s) inserted	1
Less than 3 text – We hope you will continue to use our award-winning software. This may be on its own or as the default condition	1
W3 text – As a loyal customer we are happy to offer you a free upgrade to the TotalShield suite for the next year.	1
T3 text – As a loyal customer we are happy to offer you a free upgrade to the PremierShield suite for the next year.	1
P3 text – As a reward for your loyalty we can offer you a free download of our new MalwareZap application. Just visit our website for instructions.	1

Evie Bishop 9 Golf Road SWAINSWICK BA1 8SP	Millie Williamson 60 Sloe Lane CROWLE GREEN WR7 1XE	Ruby Simpson 82 Roker Terrace LATELY COMMON WN7 4SJ	Liam Yates 55 Annfield Rd BAYTHORN END CO9 1DP
Your subscription to PremierShield expires on 21-Jun. As a reward for your loyalty we can offer you a free download of our new MalwareZap application. Just visit our website for instructions	Your subscription to WebShield expires on 08-Jun. As a loyal customer we are happy to offer you a free upgrade to the TotalShield suite for the next year.	Your subscription to TotalShield expires on 20-Jun. We hope you will continue to use our award-winning software.	Your subscription to TotalShield expires on 29-Jun. As a loyal customer we are happy to offer you a free upgrade to the PremierShield suite for the next year.
Amber Finch 9 High Street ASHBOCKING IP6 3PD	Charlie Harvey 41 Great Western Road LONGPARISH SP11 7WT	Sam Booth 93 Colorado Way RHYD-Y-FOEL LL22 4ZF	
Your subscription to WebShield expires on 12-Jun. We hope you will continue to use our award-winning software.	Your subscription to WebShield expires on 26-Jun. As a loyal customer we are happy to offer you a free upgrade to the TotalShield suite for the next year.	Your subscription to TotalShield expires on 14-Jun. As a loyal customer we are happy to offer you a free upgrade to the PremierShield suite for the next year.	

	[25]
All/Only 7 letters – with consistent text – and fit for purpose	1
Less than 3 text 'Hope' to Amber Finch, Ruby Simpson	1
W3 text – 'offer Total' to Charlie Harvey, Millie Williamson	1
T3 text – 'offer Premier' to Sam Booth, Liam Yates	1
P3 text – 'offer Zap' to Evie Bishop	1