

Cambridge IGCSE[™]

INFORMATION AND COMMUNICATION TECHNOLOGY

Paper 3 Spreadsheets and Website Authoring MARK SCHEME Maximum Mark: 70 0417/03 For examination from 2023

Specimen

This document has 14 pages.

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 2 – Web Page

Question	Answer	Marks
Please see	below for allocation of marks and examples of graphics.	
1	Row 2 – Right cell: Image of SSD reflected (flipped) horizontally (1) rotated 90 degree clockwise (1) cropped square with red background (1) SpecSSD.jpg set to 600 × 600 (1)	4
2	Screen shot includes folder name, image dimensions, file names, extensions & sizes	1

Question	Answer	Marks
3	Stylesheet SpecStyle9999.css	23
	Correct file name & type (1)	
	table { } width:90% (1) border-collapse:separate (1)	
	table,td { } border:2 px (1) solid (1) #808000 (1) These 3 elements in joint section (1)	
	td { } padding-top:8 px; (1) padding-bottom:6 px; (1) padding-left:20 px; (1) padding-right:20 px (1)	
	h1, h2, h3 { } color: #ffff00 (1) font-family: Times New Roman (1) In speech marks (1) ,Times (1) ,serif (1) These 5 elements in joint section (1)	
	h1 { } font-size:48 pt (1) text-align:right (1)	
	h2 { } font-size:24 pt (1)	
	h3 { } font-size:18 pt (1)	
	.cyan color:#00ffff (1)	
	Comment at end /* Candidate details */ (1)	
4	Stylesheets attached SpecStyle1 attached in head section (1) SpecStyle9999 attached below SpecStyle1 (1)	2
	File names with no path	
5	Class cyan applied to correct text only (1) using a span tag (1)	2

Cambridge IGCSE – Mark Schewnerw.dynamicpapersxaonination SPECIMEN from 2023

Question	Answer	Marks
6	Correct web development layer selected (1) In <head> section (1) <meta/> tags used (1) with charset attribute (1) defined as "UTF-8" (1) with name attribute (1) set to "author" (1) content defined as candidate name (1) with name attribute set to "keywords" (1) content set to "Tawara,TDS,DVD,SSD" (1)</head>	10
7	Replace Place image here with SpecSSD.jpg (1) with appropriate alt text (1)	2
Total		44

Task 3 – Spreadsheet

Question	Answer	Marks
Please see	below for allocation of marks and examples of graphics.	
8	Values printout Row 1 Cells A1 to F1 merged & centre aligned (1) Large black sans-serif font (1)	2
9	Mark from any printout Footer Candidate details on left	1
10	Model=IF() used (1)Condition like A9="" (1),"" (1)VLOOKUP () (1)Cell reference \$A9 (1)External file SpecSSD.csv (1)Correct absolute range used (1)Correct return column ,4 (1),0 or ,False (1)CapacityVLOOKUP(\$A9,SpecSSD.csv!\$A\$2:\$D\$106,3,FALSE) (1)Unit priceVLOOKUP(\$A9,SpecSSD.csv!\$A\$2:\$D\$106,2,FALSE) (1)	12
11	Price =IF(\$B9<>"", ,"") (1) B9*E9 (1)	2
12	Replication 4 columns replicated	1
13	Total =SUM(F9:F19)	1
14	Format Number of items and capacity columns as integer & currency in Euros with 2 dp	1
15	Landscape & fully visible (1) Row & column headings & gridlines visible (1)	2
16	Address and product data entry 100% accurate (1) Zip code left aligned (1)	2
17	Format Print area single page & fully visible (1) No row/column headings or gridlines (1)	2
Total		26

Evidence document

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^	Name	Date modified	Туре	Size	Dimensions
*	🖻 disk1.jpg	19/06/2017 16:00	JPG File	4,925 KB	5312 x 2988
	🖻 disk2.jpg	27/06/2017 19:24	JPG File	8,471 KB	2988 x 5312
-	🖻 disk3.jpg	05/12/2018 18:35	JPG File	1,853 KB	2268 x 2268
4	🖻 SpecDisks.jpg	03/12/2018 12:03	JPG File	3,387 KB	5312 x 2988
	🖻 SpecSSD.jpg	22/05/2018 15:27	JPG File	100 KB	600 x 600
	📸 SpecStyle.css	10/07/2017 20:31	Cascading Style S	1 KB	
	📸 SpecStyle1.css	29/12/2019 13:35	Cascading Style S	1 KB	
	SpecWebpage.htm	29/12/2019 13:34	HTM File	3 KB	
8 items	ς.		_		
		Screen shot inclue dimensions, file n SpecSSD.jpg set	des folder name ames, extension to 600 × 600	, image Is & sizes	1 mark 1 mark

SpecStyle9999.css - N	lotepad		_	
<u>F</u> ile <u>E</u> dit F <u>o</u> rmat <u>V</u> ie	ew <u>H</u> elp			
table	{width:	90%;		^
	border	-collapse:sep	parate}	
table,td	{border	:2px solid #8	808000}	
td	{paddin paddin paddin paddin	g-top:8px; g-bottom:6px; g-left:20px; g-right:20px}	; ;	
h1,h2,h3	{color: font-f	#ffff00; amily:"Times	New Roman",Times,seri	f}
h1	{font-s text-a	ize:48pt; lign:right}		
h2	{font-s	ize:24pt}		
h3	{font-s	ize:18pt}		
.cyan	{color:	#00ffff}		
/* A Candid	ate ZZ99	9 9999 */		
		Stylesheet SpecS	tyle9999 css	*
			Correct file name & type	1 mark
		table { }	width:90%	1 mark
			border-collapse:separate	1 mark
		table,td { }	border:2 px	1 mark
			solid	1 mark
			#808000	1 mark
		td ()	n joint section	1 mark
		iu { }	padding-top.o px,	1 mark
			padding-left:20 px;	1 mark
			padding-right:20 px	1 mark
		h1, h2, h3 { }	color: #ffff00	1 mark
			font-family: Times New Roman	1 mark
			In speech marks	1 mark
			, limes	1 mark
		These 5 elemente	,seni	1 mark
				1 main

Comment at end /* Candidate details */

h1 { }

h2 { }

h3 { }

.cyan

font-size:48 pt

text-align:right

font-size:24 pt

font-size:18 pt

color:#00ffff

1 mark

1 mark

1 mark

1 mark

1 mark

1 mark



Class cyan applied to correct text only ... 1 mark ... using a span tag 1 mark

```
<h1>SSDs from <span class="cyan">Tawara-Digital-
Storage</span></h1>
```

1

<h2>A Solid-State Drive is more frequently referred to as an SSD. It is a form of mass storage device similar to a hard disk drive (HDD). It supports reading and writing data (unlike some optical drives) and is non-volatile (maintains stored data when the machine is turned off). It currently uses NAND based flash memory.</h2>

<h2>SSDs have much quicker read and write speeds than HDDs. They have no moving parts. With a HDD the disk has to "spin up" from its sleep state and they don't need to move a drive head to different parts of the drive to access data. As HDDs are used their read speed performance diminishes as data is often fragmented on the drives. This means a single file may be located in many different places on the disk and the read head has to move to each location in order to retrieve the data. As SSDs are not magnetic they do not suffer data loss if strong magnetic fields are close to the drive.</h2>

<h2>Despite all these positives, SSDs are much more expensive than HDDs, in some cases more than 10 times as expensive per gigabyte. This means they often have smaller capacities than HDDs. They also have a limited number of write cycles, which may cause their performance to degrade over time. As this technology is relatively new no-one has reliable degradation data, but newer SSDs have improved reliability and should last several years before any reduction in performance can be seen. It will not be long before SSDs replace HDDs and the HDDs only location will be in museums alongside floppy disk drives.</h2>

Replace **Place image here** with SpecSSD.jpg 1 mark ... with appropriate alt text 1 mark

```
<img src="SpecSSD.jpg" alt="Image of a solid-state
drive">
    <h3>Homepage</h3>
   <h3><a
href="mailto:TDS@cambridgeinternational.org?subject=SSD%20enqu
iry">Contact us</a></h3>
```

I =IF() used 1 mark Condition like A9="" 1 mark	, ^m 1 mark VLOOKUP () 1 mark Cell reference \$A9 1 mark	External file SpecSSD.csv 1 mark	Correct absolute range used 1 mark	Correct return column ,4 1 mark	,0 or ,False 1 mark																	
Mode	Tav							Model	=IF(\$A9="","",VLOOKUP(A9,SpecSSD.csv!\$A\$2:\$D\$106,4,0))	=IF(\$A10="","",VLOOKUP(A10,SpecSSD.csv!\$A\$2:\$D\$106,4,0))	=IF(\$A11="", "", VLOOKUP(A11, SpecSSD.csv!\$A\$2:\$D\$106,4,0))	=IF(\$A12="","",VLOOKUP(A12,SpecSSD.csv!\$A\$2:\$D\$106,4,0))	=IF(\$A13="","",VLOOKUP(A13,SpecSSD.csv!\$A\$2:\$D\$106,4,0))	=IF(\$A14="","",VLOOKUP(A14,SpecSSD.csv!\$A\$2:\$D\$106,4,0))	=IF(\$A15="", "", VLOOKU P(A15, SpecSSD.csv!\$A\$2:\$D\$106,4,0))	=IF(\$A16="", "", VLOOKUP(A16, SpecSSD.csv!\$A\$2:\$D\$106,4,0))	=IF(\$A17="", "", VLOOKUP(A17, SpecSSD.csv!\$A\$2:\$D\$106,4,0))	=IF(SA18="", "", VLOOKUP(A18, SpecSSD.csv!\$A\$2:SD\$106,4,0))	=IF(\$A19="","",VLOOKUP(A19,SpecSSD.csv!\$A\$2:\$D\$106,4,0))			rom any printout Candidate details on left 1 mar
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٩		2	3 To: Ta	4 32	5 Ta	6 45	7	8 Product code	9 SSD18 1	10 SSD34 10	1	12	13	14	15	16	17	18	19	20	21	

Q	E	Ŀ
Capacity, Unit Price =IF(\$A9="","",) Capacity	1 mark	
VLOOKUP(\$A9,SpecSSD.csv!\$A\$2:\$D\$106,3,FALSI	E) 1 mark	
4 Unit price 5 VLOOKUP(\$A9,SpecSSI	0.csv!\$A\$2:\$D\$106,2,FALSE) 1 mark Price B9*E9	89<>"", ,"") 1 mark 1 mark
8 Capacity	Unit price	Price
9 =IF(\$A9="",",VLOOKUP(A9,SpecSSD.csv!\$A\$2:\$D\$106,3,0))	=IF(\$A9="","",VLOOKUP(A9,SpecSSD.csv!\$A\$2:SD\$106,2,0))	=IF(\$B9="","",B9*E9)
10 =IF(\$A10="", "", VLOOKUP(A10, SpecSSD.csv!\$A\$2:\$D\$106,3,0)	<pre>I=IF(\$A10="","",VLOOKUP(A10,SpecSSD.csv!\$A\$2:\$D\$106,2,0))</pre>	=IF(\$B10="","",B10*E10)
11 =IF(\$A11="", "", VLOOKUP(A11, SpecSSD.csv!\$A\$2:\$D\$106,3,0)	<pre>I=IF(\$A11="",",VLOOKUP(A11,SpecSSD.csv!\$A\$2:\$D\$106,2,0))</pre>	=IF(\$B11="","",B11*E11)
12 =IF(\$A12="", "", VLOOKUP(A12, SpecSSD.csv!\$A\$2:\$D\$106,3,0)	<pre>I=IF(\$A12="","",VLOOKUP(A12,SpecSSD.csv!\$A\$2:\$D\$106,2,0])</pre>	=IF(\$B12="","",B12*E12)
13 =IF(\$A13="", "", VLOOKUP(A13, SpecSSD.csv!\$A\$2:\$D\$106,3,0)	<pre>I=IF(\$A13="","",VLOOKUP(A13,SpecSSD.csv!\$A\$2:\$D\$106,2,0))</pre>	=IF(\$B13="","",B13*E13)
14 =IF(\$A14="","",VLOOKUP(A14,SpecSSD.csv!\$A\$2:\$D\$106,3,0)	<pre>IF(\$A14="","",VLOOKUP(A14,SpecSSD.csv!\$A\$2:\$D\$106,2,0))</pre>	=IF(\$B14="","",B14*E14)
15 =IF(\$A15="", "", VLOOKUP(A15, SpecSSD.csv!\$A\$2:\$D\$106,3,0)	<pre>I=IF(\$A15="","",VLOOKUP(A15,SpecSSD.csv!\$A\$2:\$D\$106,2,0])</pre>	=IF(\$B15="","",B15*E15)
16 =IF(\$A16="","",VLOOKUP(A16,SpecSSD.csv!\$A\$2:\$D\$106,3,0)	<pre>I=IF(\$A16="","",VLOOKUP(A16,SpecSSD.csv!\$A\$2:\$D\$106,2,0))</pre>	=IF(\$B16="","",B16*E16)
17 =IF(\$A17="","",VLOOKUP(A17,SpecSSD.csv!\$A\$2:\$D\$106,3,0)	<pre>IF(\$A17="","",VLOOKUP(A17,SpecSSD.csv!\$A\$2:\$D\$106,2,0))</pre>	=IF(\$B17="","",B17*E17)
18 =IF(\$A18="", "", VLOOKUP(A18, SpecSSD.csv!\$A\$2:\$D\$106,3,0)	<pre>I=IF(\$A18="","",VLOOKUP(A18,SpecSSD.csv!\$A\$2:\$D\$106,2,0))</pre>	=IF(\$B18="","",B18*E18)
19 =IF(\$A19="","",VLOOKUP(A19,SpecSSD.csv!\$A\$2:\$D\$106,3,0)	=IF(\$A19="","",VLOOKUP(A19,SpecSSD.csv!\$A\$2:\$D\$106,2,0))	=IF(\$B19="","",B19*E19)
20		
21	Total	=IF(F9="","",SUM(F9:F19))



1 mark

eplication	4 columns replicated	1 mark
	Landscape & fully visible	1 mark
	Row & column headings & gridlines visible	1 mark

10 OZT Vertex 4 256 € 181.00 € 1,810.00 Format Number of items and capacity columns as integer & curren Print area single page & fully visible No row/column headings or gridlines Total € 1,880.00	Tawara Technology Solutions Address and product data entry 100% accurate 1 mark 32 Acacia Avenue Zip code left aligned 1 mark Tawara Zip code left aligned 1 mark 45673 Number of items model Capacity Unit price Price 1 Signed Even 250 € 70.00 € 70.00 10 OZT Vertex 4 256 € 181.00 € 1,810.00
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