



Cambridge Assessment International Education
Cambridge International General Certificate of Secondary Education

INFORMATION AND COMMUNICATION TECHNOLOGY

0417/03

Paper 3 Practical Test B

October/November 2019

MARK SCHEME

Maximum Mark: 80

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.

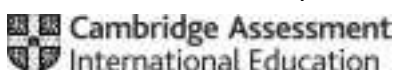
Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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

Cambridge International is publishing the mark schemes for the October/November 2019 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This syllabus is regulated for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **11** printed 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.

Invoice date: 16/10/2019

	A	B	C	D	E	F	G	H	I	J
1	Super-Disk-Sales							Less than	Discount rate	
2										
3	Total							10	0%	
4								20	5%	
5								30	10%	
6									20%	
7										
8										
9	Invoice									
10										
11	Product code	Number of Items	Make	Model	Capacity	Unit price				
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	Total Items	0				Price before discount	€0.00			
25				Discount rate	0%	Discount	€0.00			
26						Total	€0.00			

Rows 1 and 9

Cells A1 to G1 and cells A9 to G9 merged

1 mark

Cells sans-serif centre aligned font

1 mark

White 36 point text

1 mark

Black background

1 mark

Discount rate column (and cell) formatted as %

1 mark

Rows 2, 8 and 10 row height less than row 3

1 mark

Row 11

Bold sans-serif centre aligned font

1 mark

Vertically aligned to middle

1 mark

and Row 24 wrapped text

1 mark

Values printout is single page and fully visible

1 mark

Gridlines, row and column headings displayed

1 mark

Mark from any printout

Header

Invoice date: and automated date on left

1 mark

Footer

Candidate details on right

1 mark

A Candidate, Z2999, 9999

[illegible]

0417/03

Cambridge IGCSE – Mark Scheme
PUBLISHEDOctober/November
2019

Invoice date: 15/10/2019

Capacity

VLOOKUP(\$A12,SSD.csv!\$A\$2:\$E\$106,3,FALSE)

1 mark

Unit price

VLOOKUP(\$A12,SSD.csv!\$A\$2:\$E\$106,2,FALSE)

1 mark

Price

=IF(\$B12<>"",
B12*F121 mark
1 mark

Discount rate

Nested IF with 3 tiers only

=IF(B24<I3,J3, ...

=IF(B24<I4,J4, ...

=IF(B24<I5,J5,J6)

1 mark

1 mark

1 mark

1 mark

Price before discount

=SUM(G12:G23)

1 mark

Discount

=E25*G24

1 mark

Total

=G24-G25

1 mark

Replication

5 columns replicated

1 mark

Landscape, row and column headings and fully visible

1 mark

A Candidate: Z2999, 9999

Invoice date: 16/10/2019

Super-Disk-Sales

To:	Tawara Technology Solutions
	32 Acacia Avenue
	Tawara
	45673

Address and product data entry 100% accurate
Zip code left aligned

1 mark
1 mark

Invoice

[illegible]

Format

Number of items, column as integer & currency in Euros with 2dp
Print area A1:G26, single page, no row/column headings & fully visible

1 mark
1 mark

A Candidate, 11999, 9999

Evidence document

EVIDENCE 1 - Question 13 – example answer:

Test number	Test type	Item of test data	Cell	Why selected	Expected outcome in G12
Test 1	Normal	SSD1	A12	First product in the data source	(e.g.) 840
		10	B12	Easy to calculate	84 Euros · B12

Top row - cell A12 Identified 1 mark
 Right cell - Correct expected outcome of 84 Euros x B12 1 mark
 Last row left cell - appropriate number for easy calculation 1 mark
 Last row 2nd cell - refers to cell B12 1 mark
 Last row 3rd cell - suitable reason for selection 1 mark

EVIDENCE 2 - Question 16

```
<table border=1>
  <tr>
    <td colspan=3> <h1>Super-Disk-Sales</h1></td>
  </tr>
  <tr>
    <td>HDD</td>
    <td>SSD</td>
    <td>Optical media</td>
  </tr>
  <tr>
    <td colspan=3></td>
  </tr>
</table>
```

2 · colspan = 3 in <tr> rather than <td> 1 mark
 No closing speech marks in alt text 1 mark
 h1 is closed but not opened 1 mark
 HDD1.jpg has been called HDD1.mp4 1 mark

EVIDENCE 3 – Question 17:

```

193style9999.css - Notepad
File Edit Format View Help
/* A Candidate ZZ999 9999 */

table      {margin-left:auto;
            margin-right:auto;
            width:1200px;
            border-collapse:separate}

table,td   {border:2px solid #808000}

td         {padding-top:8px;
            padding-bottom:6px;
            padding-left:20px;
            padding-right:20px}

h1,h2,h3   {color: #ffff00;
            font-family:"Times New Roman",Times,serif}

h1         {font-size:48pt;
            text-align:right}

h2         {font-size:24pt}

h3         {font-size:18pt;
            font-weight:bold}

```

Stylesheet 193style????.css	Correct filename & type	1 mark
Comments	/* Candidate details */	1 mark
table { }	margin-left:auto;	1 mark
	margin-right:auto;	1 mark
	width:1200px;	1 mark
	border-collapse:separate	1 mark
table,td { }	border:2px	1 mark
	solid	1 mark
	#808000	1 mark
These 3 elements in joint section		1 mark
td { }	padding-top:8px;	1 mark
	padding-bottom:6px;	1 mark
	padding-left:20px;	1 mark
	padding-right:20px	1 mark
h1, h2, h3 { }	color: #ffff00	1 mark
	font-family: Times New Roman	1 mark
	In speech marks	1 mark
	,Times	1 mark
	,serif	1 mark
These 5 elements in joint section		1 mark
h1 { }	font-size:48pt	1 mark
	text-align:right	1 mark
h2 { }	font-size:24pt	1 mark
h3 { }	font-size:18pt	1 mark
	font-weight:bold	1 mark

0417703

EVIDENCE 4 – Question 18:

EVIDENCE 4 – Question 18:

```

<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" type="text/css" href="SSDstyle1.css">
  <link rel="stylesheet" type="text/css" href="193style9999.css"> </head>
<body>
  <table border="1" width=1400>
    <tr height=80>
      <td colspan=3>
        <h1>SSDs from Super-Disk-Sales</h1>
      </td>
    </tr>
    <tr height=600>
      <td colspan=2 width=800>
        <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>
      </td>
      <td width=600>
        
      </td>
    </tr>
    <tr height=80>
      <td width=400>
        <h3>Homepage</h3>
      </td>
      <td width=400>
        <h3><a
href="mailto:SDS@cambridgeinternational.org?subject=SSD%20enquiry">Contact
us</a></h3>
      </td>
    </tr>
    <tr>
      <td colspan=2>
        <h3>Web page creation by Hothouse Design</h3>
        <h3>Last edited by A Candidate, ZZ999, 9999</h3>
      </td>
    </tr>
  </table>

```

Stylesheets attached SSDstyle1 attached in head section 193style9999 attached below SSDstyle1	1 mark 1 mark
---	------------------

```
</tr>  
</table>  
</body>  
</html>
```