



Cambridge Assessment International Education
Cambridge International General Certificate of Secondary Education

INFORMATION AND COMMUNICATION TECHNOLOGY

0417/32

Paper 3 Practical Test B

May/June 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.

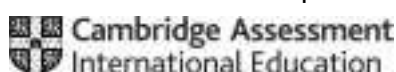
Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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

Cambridge International is publishing the mark schemes for the May/June 2019 series for most Cambridge IGCSE™, Cambridge International A and AS Level and Cambridge Pre-U 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 **13** printed pages.



PUBLISHED**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.

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Cambridge IGCSE – Mark Scheme
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Header Candidate name, centre number & candidate number in centre 1 mark
Footer Created on: date space time on left 1 mark

Manufacturer =VLOOKUP() used 1 mark
Cell reference B4 1 mark
External file SSDmanufacturer.csv 1 mark
\$A\$2:\$B\$16,2 1 mark
,0 or ,False 1 mark

A Candidate, Z2999, 9999

SCode	Mcode	Manufacturer	Model	Capacity in GB	Price	Price per GB
SSD1	S	=VLOOKUP(B4,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	SSD Evo	250	84	=ROUNDDOWN(F4/E4,2)
SSD10	F	=VLOOKUP(B5,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Extreme Pro	240	116	=ROUNDDOWN(F5/E5,2)
SSD100	I	=VLOOKUP(B6,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	S20 Series	120	194	=ROUNDDOWN(F6/E6,2)
SSD101	A	=VLOOKUP(B7,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Premier Pro SP900	128	60	=ROUNDDOWN(F7/E7,2)
SSD103	O	=VLOOKUP(B8,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Vertex 3	130	96	=ROUNDDOWN(F8/E8,2)
SSD104	C	=VLOOKUP(B9,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Force 3	240	190	=ROUNDDOWN(F9/E9,2)
SSD105	O	=VLOOKUP(B10,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	RevoDrive 3 X2	240		
SSD106	D	=VLOOKUP(B11,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	M5M mSATA	256		
SSD11	B	=VLOOKUP(B12,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	MX300	275		
SSD12	B	=VLOOKUP(B13,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	BX100	500		
SSD13	B	=VLOOKUP(B14,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	BX100	250		
SSD14	F	=VLOOKUP(B15,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Ultra II	240		
SSD15	B	=VLOOKUP(B16,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	MX100	256		
SSD16	S	=VLOOKUP(B17,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	840 Pro	128	120	=ROUNDDOWN(F17/E17,2)
SSD17	S	=VLOOKUP(B18,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	840 Evo	120	60	=ROUNDDOWN(F18/E18,2)
SSD18	S	=VLOOKUP(B19,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	840 Evo	250	70	=ROUNDDOWN(F19/E19,2)
SSD19	F	=VLOOKUP(B20,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Extreme II	240	168	=ROUNDDOWN(F20/E20,2)
SSD2	S	=VLOOKUP(B21,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	850 Pro 256GB	256	105	=ROUNDDOWN(F21/E21,2)
SSD20	S	=VLOOKUP(B22,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	840 Pro	256	134	=ROUNDDOWN(F22/E22,2)
SSD21	O	=VLOOKUP(B23,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	AME Radeon R7	120	56	=ROUNDDOWN(F23/E23,2)
SSD22	O	=VLOOKUP(B24,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	ARC 100	120	100	=ROUNDDOWN(F24/E24,2)
SSD23	H	=VLOOKUP(B25,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	SSD370	256	115	=ROUNDDOWN(F25/E25,2)
SSD24	F	=VLOOKUP(B26,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Extreme Pro	480	200	=ROUNDDOWN(F26/E26,2)
SSD25	C	=VLOOKUP(B27,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Neutron XT	240	141	=ROUNDDOWN(F27/E27,2)
SSD26	I	=VLOOKUP(B28,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	S20 Series	120	236	=ROUNDDOWN(F28/E28,2)
SSD27	O	=VLOOKUP(B29,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Vector 150	240	204	=ROUNDDOWN(F29/E29,2)
SSD28	F	=VLOOKUP(B30,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Ultra Plus	256	148	=ROUNDDOWN(F30/E30,2)
SSD29	S	=VLOOKUP(B31,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	850 Pro	128	95	=ROUNDDOWN(F31/E31,2)
SSD3	S	=VLOOKUP(B32,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	850 Evo	500	141	=ROUNDDOWN(F32/E32,2)
SSD30	F	=VLOOKUP(B33,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Ultra Plus	128	66	=ROUNDDOWN(F33/E33,2)
SSD31	K	=VLOOKUP(B34,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	HyperX	240	221	=ROUNDDOWN(F34/E34,2)
SSD32	O	=VLOOKUP(B35,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	Vector 180	240	107	=ROUNDDOWN(F35/E35,2)
SSD33	O	=VLOOKUP(B36,SSDmanufacturer.csv!\$A\$2:\$B\$16,2,0)	ARC 100	240		

Price per GB =ROUNDDOWN() 1 mark
F4 1 mark
/ 1 mark
E4 1 mark
,2 1 mark

Replication Both columns replicated 1 mark
Row and column headings displayed 1 mark
Landscape and fully visible 1 mark

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	A	B	C	D	E	F	G
37	SS034	O	=VLOOKUP(B37,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Vertex 4	256	181	=ROUNDOWN(F37/E37,2)
38	SS035	K	=VLOOKUP(B38,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	HyperX Fury	120	55	=ROUNDOWN(F38/E38,2)
39	SS036	B	=VLOOKUP(B39,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	M500	240	91	=ROUNDOWN(F39/E39,2)
40	SS037	F	=VLOOKUP(B40,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Ultra II	480	145	=ROUNDOWN(F40/E40,2)
41	SS038	O	=VLOOKUP(B41,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Vertex 460A	240	96	=ROUNDOWN(F41/E41,2)
42	SS039	I	=VLOOKUP(B42,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	730 Series	240	395	=ROUNDOWN(F42/E42,2)
43	SS04	S	=VLOOKUP(B43,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	850 Evo	120	82	=ROUNDOWN(F43/E43,2)
44	SS040	C	=VLOOKUP(B44,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Neutron GTX	240	163	=ROUNDOWN(F44/E44,2)
45	SS041	B	=VLOOKUP(B45,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	MX300	525	139	=ROUNDOWN(F45/E45,2)
46	SS042	O	=VLOOKUP(B46,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Vertex 460A	120	56	=ROUNDOWN(F46/E46,2)
47	SS043	D	=VLOOKUP(B47,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	MS Pro	256	114	=ROUNDOWN(F47/E47,2)
48	SS044	A	=VLOOKUP(B48,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Premier Pro SP920	256	82	=ROUNDOWN(F48/E48,2)
49	SS045	I	=VLOOKUP(B49,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	530 Series	120	88	=ROUNDOWN(F49/E49,2)
50	SS046	B	=VLOOKUP(B50,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	MX300	750	208	=ROUNDOWN(F50/E50,2)
51	SS047	I	=VLOOKUP(B51,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	535 Series	240	103	=ROUNDOWN(F51/E51,2)
52	SS048	O	=VLOOKUP(B52,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Vertex 460	240	136	=ROUNDOWN(F52/E52,2)
53	SS049	G	=VLOOKUP(B53,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	600	240	178	=ROUNDOWN(F53/E53,2)
54	SS05	S	=VLOOKUP(B54,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	850 Pro	512	180	=ROUNDOWN(F54/E54,2)
55	SS050	K	=VLOOKUP(B55,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	HyperX Savage	120	53	=ROUNDOWN(F55/E55,2)
56	SS051	O	=VLOOKUP(B56,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Vertex 4	128	115	=ROUNDOWN(F56/E56,2)
57	SS052	A	=VLOOKUP(B57,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	XPG 5X900	256	117	=ROUNDOWN(F57/E57,2)
58	SS053	K	=VLOOKUP(B58,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	SSDNow V300	240	84	=ROUNDOWN(F58/E58,2)
59	SS054	K	=VLOOKUP(B59,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	HyperX Savage	480	150	=ROUNDOWN(F59/E59,2)
60	SS055	O	=VLOOKUP(B60,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	AME Radeon R7	240	100	=ROUNDOWN(F60/E60,2)
61	SS056	T	=VLOOKUP(B61,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Q Series Pro	128	82	=ROUNDOWN(F61/E61,2)
62	SS057	B	=VLOOKUP(B62,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	M500	120	55	=ROUNDOWN(F62/E62,2)
63	SS058	K	=VLOOKUP(B63,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	HyperX 3K	120	69	=ROUNDOWN(F63/E63,2)
64	SS059	O	=VLOOKUP(B64,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Vector 180	480	162	=ROUNDOWN(F64/E64,2)
65	SS06	S	=VLOOKUP(B65,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	850 Pro	1024	382	=ROUNDOWN(F65/E65,2)
66	SS060	A	=VLOOKUP(B66,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Premier SP610	256	113	=ROUNDOWN(F66/E66,2)
67	SS061	B	=VLOOKUP(B67,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	8X200	240	64	=ROUNDOWN(F67/E67,2)
68	SS062	O	=VLOOKUP(B68,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Trion 150	240	50	=ROUNDOWN(F68/E68,2)
69	SS063	O	=VLOOKUP(B69,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Vector 150	120	71	=ROUNDOWN(F69/E69,2)
70	SS064	B	=VLOOKUP(B70,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	MX200	500	151	=ROUNDOWN(F70/E70,2)
71	SS065	B	=VLOOKUP(B71,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	MX100	512	152	=ROUNDOWN(F71/E71,2)
72	SS066	K	=VLOOKUP(B72,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	SSDNow KC300	120	63	=ROUNDOWN(F72/E72,2)
73	SS067	A	=VLOOKUP(B73,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Ultimate SU800	256	81	=ROUNDOWN(F73/E73,2)
74	SS068	A	=VLOOKUP(B74,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	XPG 5X930	120	97	=ROUNDOWN(F74/E74,2)

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	A	B	C	D	E	F	G
75	SS069	C	=VLOOKUP(B75,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Force LS	240	80	=ROUNDOWN(F75/E75,2)
76	SS07	B	=VLOOKUP(B76,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	MX200	250	78	=ROUNDOWN(F76/E76,2)
77	SS070	O	=VLOOKUP(B77,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Trion 150	120	41	=ROUNDOWN(F77/E77,2)
78	SS071	B	=VLOOKUP(B78,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	MX20	1024	315	=ROUNDOWN(F78/E78,2)
79	SS072	D	=VLOOKUP(B79,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	M65	128	66	=ROUNDOWN(F79/E79,2)
80	SS073	B	=VLOOKUP(B80,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	MX30	1024	256	=ROUNDOWN(F80/E80,2)
81	SS074	D	=VLOOKUP(B81,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	M65	256	140	=ROUNDOWN(F81/E81,2)
82	SS075	D	=VLOOKUP(B82,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	M6V	256	91	=ROUNDOWN(F82/E82,2)
83	SS076	O	=VLOOKUP(B83,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Vector 180	120	77	=ROUNDOWN(F83/E83,2)
84	SS077	B	=VLOOKUP(B84,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	8X100	120	68	=ROUNDOWN(F84/E84,2)
85	SS078	O	=VLOOKUP(B85,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	ARC 100	480	182	=ROUNDOWN(F85/E85,2)
86	SS079	K	=VLOOKUP(B86,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	SSDNow V300	120	47	=ROUNDOWN(F86/E86,2)
87	SS08	S	=VLOOKUP(B87,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	850 Evo	1024	280	=ROUNDOWN(F87/E87,2)
88	SS080	S	=VLOOKUP(B88,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	830	256	217	=ROUNDOWN(F88/E88,2)
89	SS081	B	=VLOOKUP(B89,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	RealSSD C300	256	156	=ROUNDOWN(F89/E89,2)
90	SS082	Z	=VLOOKUP(B90,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Premium Edition	240	82	=ROUNDOWN(F90/E90,2)
91	SS083	P	=VLOOKUP(B91,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Ignite	240	94	=ROUNDOWN(F91/E91,2)
92	SS084	F	=VLOOKUP(B92,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Extreme Pro	960	335	=ROUNDOWN(F92/E92,2)
93	SS085	K	=VLOOKUP(B93,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	SSDNow V300	480	152	=ROUNDOWN(F93/E93,2)
94	SS086	H	=VLOOKUP(B94,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	SS0370	128	52	=ROUNDOWN(F94/E94,2)
95	SS087	B	=VLOOKUP(B95,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	M4	128	96	=ROUNDOWN(F95/E95,2)
96	SS088	S	=VLOOKUP(B96,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	840	250	143	=ROUNDOWN(F96/E96,2)
97	SS089	H	=VLOOKUP(B97,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	SS0370	512	282	=ROUNDOWN(F97/E97,2)
98	SS09	K	=VLOOKUP(B98,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	HyperX Savage	240	100	=ROUNDOWN(F98/E98,2)
99	SS090	B	=VLOOKUP(B99,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	M4	256	181	=ROUNDOWN(F99/E99,2)
100	SS091	A	=VLOOKUP(B100,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Premier SP550	240	72	=ROUNDOWN(F100/E100,2)
101	SS092	O	=VLOOKUP(B101,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Trion 150	480	115	=ROUNDOWN(F101/E101,2)
102	SS093	I	=VLOOKUP(B102,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	330 Series	120	72	=ROUNDOWN(F102/E102,2)
103	SS094	S	=VLOOKUP(B103,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	830	128	90	=ROUNDOWN(F103/E103,2)
104	SS095	C	=VLOOKUP(B104,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Performance Pro	256	289	=ROUNDOWN(F104/E104,2)
105	SS096	A	=VLOOKUP(B105,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Ultimate SUB0	128	43	=ROUNDOWN(F105/E105,2)
106	SS097	E	=VLOOKUP(B106,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	CS1311	240	73	=ROUNDOWN(F106/E106,2)
107	SS098	O	=VLOOKUP(B107,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	Vector	256	199	=ROUNDOWN(F107/E107,2)
108	SS099	D	=VLOOKUP(B108,SS0manufacturer.csv!\$A\$2:\$B\$16,2,0)	M55	128	100	=ROUNDOWN(F108/E108,2)

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Spreadsheet	Rows 1 and 2 inserted at top	1 mark
Row 1	A1 to G1 merged	1 mark
	Serif centre aligned font	1 mark
	SDS – SSD price per gigabyte accurate	1 mark
	White 30 point text	1 mark
	Red background	1 mark
Row 2	Row height less than half row 4	1 mark
Row 3	Sans-serif left aligned font	1 mark
	Red 18 point	1 mark

	A	B	C	D	E	F	G
1	SDS – SSD price per gigabyte						
2							
3	SCode	Mcode	Manufacturer	Model	Capacity in GB	Price	Price per GB
4	SSD1	S	Samsung	850 Evo	250	€84.00	€0.33
5	SSD10	F	Sandisc	Extreme Pro	240	€116.00	€0.48
6	SSD100	I	Intem	320 Series	120	€194.00	€1.61
7	SSD101	A	Adatb	Premier Pro SP900	128	€60.00	€0.46
8	SSD103	O	OZT	Vertex 3	130	€96.00	€0.73
9	SSD104	C	Corsaire	Force 3	240	€193.00	€0.80
10	SSD105	O	OZT	RevoDrive 3 X2	240	€429.00	€1.78
11	SSD106	D	Plextore	M5M mSATA	256	€153.00	€0.59
12	SSD11	B	Cruciale	MX300	275	€89.00	€0.32
13	SSD12	B	Cruciale	BX100	500	€435.00	€0.87
14	SSD13	B	Cruciale	BX100	250	€103.00	€0.41
15	SSD14	F	Sandisc	Ultra II	240	€88.00	€0.36
16	SSD15	B	Cruciale	MX100	256	€250.00	€0.97
17	SSD16	S	Samsung	840 Pro	128	€120.00	€0.93
18	SSD17	S	Samsung	840 Evo	120	€60.00	€0.50
19	SSD18	S	Samsung	840 Evo	250	€70.00	€0.28
20	SSD19	F	Sandisc	Extreme II	240	€168.00	€0.70
21	SSD2	S	Samsung	850 Pro 256GB	256	€105.00	€0.41
22	SSD20	S	Samsung	840 Pro	256	€134.00	€0.52
23	SSD21	O	OZT	AME Radeon R7	120	€56.00	€0.46
24	SSD22	O	OZT	ARC 100	120	€100.00	€0.83
25	SSD23	H	Transcendental	SSD370	256	€115.00	€0.44
26	SSD24	F	Sandisc	Extreme Pro	480	€200.00	€0.41
27	SSD25	C	Corsaire	Neutron XT	240	€141.00	€0.58
28	SSD26	I	Intem	520 Series	120	€236.00	€1.96
29	SSD27	O	OZT	Vector 150	240	€204.00	€0.85
30	SSD28	F	Sandisc	Ultra Plus	256	€148.00	€0.57
31	SSD29	S	Samsung	850 Pro	128	€95.00	€0.74
32	SSD3	S	Samsung	850 Evo	500	€141.00	€0.28
33	SSD30	F	Sandisc	Ultra Plus	128	€66.00	€0.51
34	SSD31	K	Kingston	HyperX	240	€221.00	€0.92
35	SSD32	O	OZT	Vector 180	240	€107.00	€0.44
36	SSD33	O	OZT	ARC 100	240	€100.00	€0.41
37	SSD34	O	OZT	Vertex 4	256	€181.00	€0.70
38	SSD35	K	Kingston	HyperX Fury	120	€55.00	€0.45
39	SSD36	B	Cruciale	M500	240	€91.00	€0.37
40	SSD37	F	Sandisc	Ultra II	480	€143.00	€0.29
41	SSD38	O	OZT	Vertex 460A	240	€96.00	€0.40
42	SSD39	I	Intem	730 Series	240	€395.00	€1.64
43	SSD4	S	Samsung	850 Evo	120	€82.00	€0.68
44	SSD40	C	Corsaire	Neutron GTX	240	€163.00	€0.67
45	SSD41	B	Cruciale	MX300	525	€139.00	€0.26
46	SSD42	O	OZT	Vertex 460A	120	€56.00	€0.46
47	SSD43	D	Plextore	M5 Pro	256	€114.00	€0.44
48	SSD44	A	Adatb	Premier Pro SP920	256	€82.00	€0.32
49	SSD45	I	Intem	530 Series	120	€88.00	€0.73
50	SSD46	B	Cruciale	MX300	750	€208.00	€0.27
51	SSD47	I	Intem	535 Series	240	€103.00	€0.42
52	SSD48	O	OZT	Vertex 460	240	€136.00	€0.56
53	SSD49	G	Seagate	600	240	€178.00	€0.74
54	SSD5	S	Samsung	850 Pro	512	€180.00	€0.35
55	SSD50	K	Kingston	HyperX Savage	120	€53.00	€0.44
56	SSD51	O	OZT	Vertex 4	128	€115.00	€0.89
57	SSD52	A	Adatb	XPG SX900	256	€117.00	€0.45
58	SSD53	K	Kingston	SSDNow V300	240	€84.00	€0.35
59	SSD54	K	Kingston	HyperX Savage	480	€150.00	€0.31
60	SSD55	O	OZT	AME Radeon R7	240	€100.00	€0.41
61	SSD56	T	Toshiba	Q Series Pro	128	€82.00	€0.64
62	SSD57	B	Cruciale	M500	120	€55.00	€0.45
63	SSD58	K	Kingston	HyperX 3K	120	€69.00	€0.57

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Format	Price & Price per GB in Euros to 2dp	1 mark
	Single page wide, 2 tall and fully visible	1 mark

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	A	B	C	D	E	F	G
64	SSD59	O	OZT	Vector 180	480	£162.00	£0.33
65	SSD6	S	Samsing	850 Pro	1024	£382.00	£0.37
66	SSD60	A	Adatb	Premier SP610	256	£113.00	£0.44
67	SSD61	B	Cruciale	BX200	240	£64.00	£0.26
68	SSD62	O	OZT	Trion 150	240	£50.00	£0.20
69	SSD63	O	OZT	Vector 150	120	£71.00	£0.59
70	SSD64	B	Cruciale	MX200	500	£151.00	£0.30
71	SSD65	B	Cruciale	MX100	512	£152.00	£0.29
72	SSD66	K	Kingston	SSDNow KC300	120	£63.00	£0.52
73	SSD67	A	Adatb	Ultimate SU800	256	£81.00	£0.31
74	SSD68	A	Adatb	XPG SX930	120	£97.00	£0.80
75	SSD69	C	Corsaire	Force LS	240	£80.00	£0.33
76	SSD7	B	Cruciale	MX200	250	£78.00	£0.31
77	SSD70	O	OZT	Trion 150	120	£41.00	£0.34
78	SSD71	B	Cruciale	MX20	1024	£315.00	£0.30
79	SSD72	D	Plextore	M65	128	£66.00	£0.51
80	SSD73	B	Cruciale	MX30	1024	£256.00	£0.25
81	SSD74	D	Plextore	M65	256	£140.00	£0.54
82	SSD75	D	Plextore	MGV	256	£91.00	£0.35
83	SSD76	O	OZT	Vector 180	120	£77.00	£0.64
84	SSD77	B	Cruciale	BX100	120	£68.00	£0.56
85	SSD78	O	OZT	ARC 100	480	£182.00	£0.37
86	SSD79	K	Kingston	SSDNow V300	120	£47.00	£0.39
87	SSD8	S	Samsing	850 Evo	1024	£280.00	£0.27
88	SSD80	S	Samsing	830	256	£217.00	£0.84
89	SSD81	B	Cruciale	RealSSD C300	256	£156.00	£0.60
90	SSD82	Z	Zotaco	Premium Edition	240	£82.00	£0.34
91	SSD83	P	Patriot	Ignite	240	£94.00	£0.39
92	SSD84	F	Sandisc	Extreme Pro	960	£335.00	£0.34
93	SSD85	K	Kingston	SSDNow V300	480	£152.00	£0.31
94	SSD86	H	Transcendental	SSD370	128	£52.00	£0.40
95	SSD87	B	Cruciale	M4	128	£96.00	£0.75
96	SSD88	S	Samsing	840	250	£143.00	£0.57
97	SSD89	H	Transcendental	SSD370	512	£282.00	£0.55
98	SSD9	K	Kingston	HyperX Savage	240	£100.00	£0.41
99	SSD90	B	Cruciale	M4	256	£181.00	£0.70
100	SSD91	A	Adatb	Premier SP550	240	£72.00	£0.30
101	SSD92	O	OZT	Trion 150	480	£115.00	£0.23
102	SSD93	I	Intem	330 Series	120	£72.00	£0.60
103	SSD94	S	Samsing	830	128	£90.00	£0.70
104	SSD95	C	Corsaire	Performance Pro	256	£289.00	£1.12
105	SSD96	A	Adatb	Ultimate SU800	128	£43.00	£0.33
106	SSD97	E	PNZ	CS1311	240	£73.00	£0.30
107	SSD98	O	OZT	Vector	256	£199.00	£0.77
108	SSD99	D	Plextore	M55	128	£100.00	£0.78

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	A	B	C	D	E	F	G
1	SDS – SSD price per gigabyte						
3	SCode	Mcode	Manufacturer	Model	Capacity in GB	Price	Price per GB
4	SSD92	O	OZT	Trion 150	480	€115.00	€0.23
19	SSD59	O	OZT	Vector 180	480	€162.00	€0.33
21	SSD34	O	OZT	Vertex 4	256	€181.00	€0.70
22	SSD78	O	OZT	ARC 100	480	€182.00	€0.37
32	SSD98	O	OZT	Vector	256	€199.00	€0.77
37	SSD18	S	Samsung	840 Evo	250	€70.00	€0.28
54	SSD1	S	Samsung	850 Evo	250	€84.00	€0.33
64	SSD2	S	Samsung	850 Pro 256GB	256	€105.00	€0.41
85	SSD20	S	Samsung	840 Pro	256	€134.00	€0.52
96	SSD3	S	Samsung	850 Evo	500	€141.00	€0.28
101	SSD88	S	Samsung	840	250	€143.00	€0.57
107	SSD5	S	Samsung	850 Pro	512	€180.00	€0.35

Extract	Samsung or OZT	1 mark
	Price < 200	1 mark
	Capacity >240	1 mark
	Ascending sorts on Manufacturer then Price as single page with required cells fully visible	1 mark

Evidence 1

<td>		
	Ordered list	1 mark
Cloud storage	Unordered list	1 mark
10GB free for the first 6 months		
Best rates for a single region		
Premium service for multi-regional		
	Close unordered list	1 mark
Hard disk drives		
Solid state drives		
	Close ordered list	1 mark
</td>	Unordered list embedded within ordered list	1 mark

Alternative answer format:

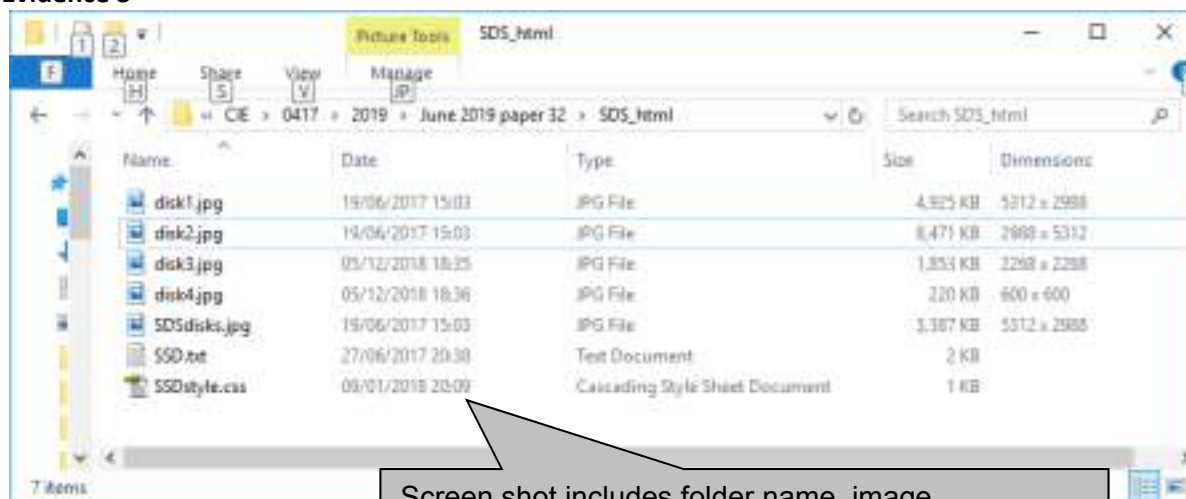
Identifying an ordered list required	1 mark
Ordered list placed before Cloud storage and closed after Solid state drives	1 mark
Identifying an unordered list required	1 mark
Unordered list placed after Cloud storage and closed before Hard disk drives	1 mark
Unordered list embedded within ordered list	1 mark

Evidence 2

(a) Behaviour	1 mark each	4 marks
(b) Content/structure		
(c) Content/structure		
(d) Presentation		

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Evidence 3



Screen shot includes folder name, image dimensions, filenames, extensions and sizes 1 mark
disk4.jpg set to 600 · 600 1 mark

Evidence 4



Stylesheet		
h1,h2,h3	color:#361215	1 mark
	text-align:center	1 mark
h1	font-size:30pt	1 mark
h2 and h3	14pt and 20pt respectively	1 mark
table	{border-collapse:separate}	1 mark
td	{padding:15px}	1 mark
body	background-color:	1 mark
	#ffff99	1 mark
Correct comment added with /* details */		1 mark

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Evidence 5



The screenshot shows a web browser window with the address bar displaying 'solid_state_drive.htm'. The page content includes a title 'SSDs from Super-Disk-Sales', a paragraph about SSDs, a photograph of a solid state drive, and a footer with navigation links and contact information.

In browser	with address bar and no letters vis	1 mark
Table	borders visible	1 mark
Top cell	SSDs from Super-Disk-Sales 100% correct	1 mark
	in h1	1 mark
Row 2	Left cell: Text from file inserted...	1 mark
	...with paragraph breaks evident	1 mark
	in h2	1 mark
	Right cell: Image of SSD	1 mark
	...horizontal reflection – writing not mirrored	1 mark
	...90 degree clockwise rotation	1 mark
	Image cropped square with red background	1 mark
Bottom row	Left: Homepage set in h3	1 mark
	Centre: Contact us set in style h3	1 mark
	Right: Web page edited by: and candidate details set in style h3	1 mark

Evidence 6`<!DOCTYPE html>``<html>`

Stylesheet SSDstyle.css attached 1 mark

`<head>``<link rel="stylesheet" type="text/css" href="SSDstyle.css">``</head>``<body>``<table border="1" width=1400>`

Table width=1400 1 mark

`<tr height=80>`

height=80 1 mark

`<td colspan=3>`

colspan=3 1 mark

`<h1>SSDs from Super-Disk-Sales</h1>``</td>``</tr>``<tr height=600>`

height=600 1 mark

`<td colspan=2 width=800>`

Colspan=2 1 mark

`<h2>A Solid State Drive`

width=800 1 mark

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>`

width=600 1 mark

```</td>`

Appropriate alt text for disk4.jpg 1 mark

`</tr>``<tr height=80>`

height=80 1 mark

```

<td width=400>
 <h3>Homepage</h3>
</td>
<td width=400>
 <h3>Contact
us</h3>
 </td>
<td>
 <h3>Web page edited by: A Candidate, ZZ9999, 9999</h3>
 </td>
</tr>
</table>
</body>
</html>

```

2 cells      width=400      1 mark

**Contact us** only as a hyperlink      1 mark  
 href="mailto:      1 mark  
**SDS@cambridgeinternational.org** 1 mark  
 ?subject=      1 mark  
**SSD enquiry"**      1 mark