



**General Certificate of Secondary Education
June 2010**

**Information and Communication
Technology**

3522/F

**Specification B
Full Course
Foundation Tier**

Final

Mark Scheme

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

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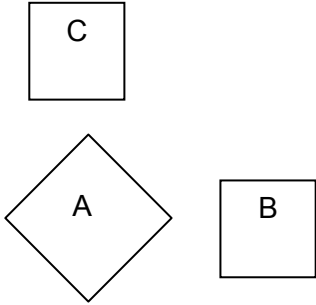
1	(a)		These points Bold Font size Spelling Checker	3 marks
1	(b)	(i)	This point B, Centred	1 mark
1	(b)	(ii)	This point D, Justified	1 mark
1	(c)		These points Correct order DBCA DB or CA – 1 mark	2 marks
1	(d)	(i)	This point E, Word art	1 mark
1	(d)	(ii)	This point C, Autoshape	1 mark
1	(d)	(iii)	This point F, Text box	1 mark
1	(e)		These points .jpg .bmp .gif	3 marks
1	(f)		These points Someone might copy the secretary's signature and pretend to be the secretary and attempt to defraud the company Someone might read the e-mail then they would know the SWgold watch is in stock and could steal from them	2 marks
			Total	15 marks

2	(a)		This point spreadsheet	1 mark
2	(b)	(i)	This point A, A6 Allow: Any cell reference where the content of the cell is text	1 mark
2	(b)	(ii)	This point C, C5 Allow: Any cell reference where the content of the cell is number	1 mark
2	(b)	(iii)	This point. B, D8 or D, D5 – 1 mark Allow: Any cell reference where the format of the cell is currency	1 mark
2	(b)	(iv)	This point D, D5	1 mark
2	(b)	(v)	This point B, D8	1 mark
2	(c)	(i)	These points The quotation can be edited to produce a similar quotation for another customer The plumber can rely on the software to produce accurate calculations	2 marks
2	(c)	(ii)	These points The plumber must have access to a computer to produce a quotation The plumber must be able to use the software	2 marks
2	(d)		These points The plumber should be working not playing on line games on the Internet The plumber's employer has told the plumber that the laptop computer should only be used to help the with the plumber's job	2 marks
2	(e)		These points Use antivirus software Use a firewall Only allow access to trusted websites	3 marks
			Total	15 marks

3	(a)		This point database	1 mark						
3	(b)		Any reasonable, for example Address or telephone number + so that the doctor can contact the patient Date of Birth + so that the doctor can prescribe age related medicines more accurately	2 marks						
3	(c)		This point Table look-up	1 mark						
3	(d)		These points A key field cannot be left blank A key field must be different in every record	2 marks						
3	(e)	(i)	This point A, input	1 mark						
3	(e)	(ii)	This point D, storage	1 mark						
3	(f)		This point Admission Date	1 mark						
3	(g)		These points Correct order descending <table border="1" data-bbox="751 1122 995 1368"> <thead> <tr> <th>Patient Number</th> </tr> </thead> <tbody> <tr> <td>0882</td> </tr> <tr> <td>0453</td> </tr> <tr> <td>0371</td> </tr> <tr> <td>0263</td> </tr> <tr> <td>0061</td> </tr> </tbody> </table> 4 in order descending – 1 mark Correct order ascending – 1 mark	Patient Number	0882	0453	0371	0263	0061	2 marks
Patient Number										
0882										
0453										
0371										
0263										
0061										
3	(h)	(i)	This point Jackson	1 mark						
3	(h)	(ii)	This point Both Janiak and Singh	1 mark						
3	(h)	(iii)	This point Both Janiak and Bolton	1 mark						
3	(h)	(iv)	This point Both Jackson and Singh	1 mark						
			Total	15 marks						

4	(a)		These points johnp@electro.sch.uk admin@hickleyhealth.co.uk	2 marks
4	(b)		These points A spreadsheet A .jpg file	2 marks
4	(c)		These points When you reply to an e-mail, the e-mail is automatically addressed to the person who sent it to you When you forward an e-mail, you have to enter the e-mail address of the person you are sending it to	2 marks
4	(d)	(i)	This point A zipped file is compressed	1 mark
4	(d)	(ii)	These points A and E in any order	2 marks
4	(e)	(i)	This point When opened, the e-mail shows immediately that the home page is attractive	1 mark
4	(e)	(ii)	This point The e-mail is smaller and will upload and download faster	1 mark
4	(f)		These points The e-mail is automatically addressed to the owners A new e-mail message opens or a blank e-mail form opens	2 marks
4	(g)		These points You can compare a wider range of goods more easily You have access to the whole product range	2 marks
			Total	15 marks

5	(a)	<p>These points Starts cutting at (1,2) and cuts line to (1,4) – 1 mark Cuts from (1,4) to (4,4) – 1 mark Cuts from (4,4) to (4,2) – 1 mark Completes cutting of 2x3 rectangle with no other marks or shading - 1 mark</p>	4 marks																					
5	(b)	<p>Any reasonable, for example This example of instructions to remove hole B follows the example in the question paper but can be applied to any other route. If it works, full marks.</p> <table border="1" data-bbox="427 533 1171 1059"> <tr> <td data-bbox="435 533 571 600">Up</td> <td data-bbox="571 533 1171 600">Includes Up, Down, Up in sequence and no others – 1 mark</td> </tr> <tr> <td data-bbox="435 600 571 633">Move 3</td> <td data-bbox="571 600 1171 633" rowspan="4">Arrives at hole and traverses one side successfully whether cut or otherwise – 1 mark</td> </tr> <tr> <td data-bbox="435 633 571 667">Right</td> </tr> <tr> <td data-bbox="435 667 571 701">Move 1</td> </tr> <tr> <td data-bbox="435 701 571 734">Down</td> </tr> <tr> <td data-bbox="435 734 571 768">Move 1</td> <td data-bbox="571 734 1171 768" rowspan="6">Traverses the entire hole successfully whether cut or otherwise – 1 mark</td> </tr> <tr> <td data-bbox="435 768 571 801">Left</td> </tr> <tr> <td data-bbox="435 801 571 835">Move 1</td> </tr> <tr> <td data-bbox="435 835 571 869">Left</td> </tr> <tr> <td data-bbox="435 869 571 902">Move 1</td> </tr> <tr> <td data-bbox="435 902 571 936">Left</td> </tr> <tr> <td data-bbox="435 936 571 969">Move 1</td> <td data-bbox="571 936 1171 969" rowspan="2">Correct completion – 1 mark</td> </tr> <tr> <td data-bbox="435 969 571 1003">Up</td> </tr> <tr> <td data-bbox="435 1003 571 1037">To start</td> <td data-bbox="571 1003 1171 1037"></td> </tr> </table>	Up	Includes Up, Down, Up in sequence and no others – 1 mark	Move 3	Arrives at hole and traverses one side successfully whether cut or otherwise – 1 mark	Right	Move 1	Down	Move 1	Traverses the entire hole successfully whether cut or otherwise – 1 mark	Left	Move 1	Left	Move 1	Left	Move 1	Correct completion – 1 mark	Up	To start		4 marks		
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To start																								
5	(c)	<p>Any reasonable, for example If it works, full marks.</p> <table border="1" data-bbox="427 1160 1171 1753"> <tr> <td data-bbox="435 1160 571 1227">Up</td> <td data-bbox="571 1160 1171 1227">Includes Up, Down, Up in sequence and no others – 1 mark</td> </tr> <tr> <td data-bbox="435 1227 571 1261">Move 1</td> <td data-bbox="571 1227 1171 1261" rowspan="5">Arrives at shape and traverses two sides successfully whether cut or otherwise – 1 mark</td> </tr> <tr> <td data-bbox="435 1261 571 1294">Down</td> </tr> <tr> <td data-bbox="435 1294 571 1328">Move 4</td> </tr> <tr> <td data-bbox="435 1328 571 1361">Right</td> </tr> <tr> <td data-bbox="435 1361 571 1395">Move 2</td> </tr> <tr> <td data-bbox="435 1395 571 1429">Right</td> <td data-bbox="571 1395 1171 1429" rowspan="4">Traverses the notch whether cut or otherwise – 1 mark</td> </tr> <tr> <td data-bbox="435 1429 571 1462">Move 1</td> </tr> <tr> <td data-bbox="435 1462 571 1496">Left</td> </tr> <tr> <td data-bbox="435 1496 571 1529">Move 1</td> </tr> <tr> <td data-bbox="435 1529 571 1563">Right</td> <td data-bbox="571 1529 1171 1563" rowspan="7">Correct completion – 1 mark</td> </tr> <tr> <td data-bbox="435 1563 571 1597">Move 3</td> </tr> <tr> <td data-bbox="435 1597 571 1630">Right</td> </tr> <tr> <td data-bbox="435 1630 571 1664">Move 3</td> </tr> <tr> <td data-bbox="435 1664 571 1697">Up</td> </tr> <tr> <td data-bbox="435 1697 571 1731">To start</td> </tr> <tr> <td data-bbox="435 1731 571 1753"></td> </tr> </table>	Up	Includes Up, Down, Up in sequence and no others – 1 mark	Move 1	Arrives at shape and traverses two sides successfully whether cut or otherwise – 1 mark	Down	Move 4	Right	Move 2	Right	Traverses the notch whether cut or otherwise – 1 mark	Move 1	Left	Move 1	Right	Correct completion – 1 mark	Move 3	Right	Move 3	Up	To start		4 marks
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Up																								
To start																								

5	(d)	<p>These points Each label in its correct box – <i>1 mark per box</i></p>  <p>The diagram shows three labels: a square labeled 'C' at the top, a diamond labeled 'A' in the middle-left, and a square labeled 'B' in the middle-right.</p>	3 marks
		Total	15 marks

6	(a)	(i)	This point C, Mail merge	1 marks
6	(a)	(ii)	These points A list of current members A list of DVDs that are available to rent A list of DVDs that each member has borrowed	3 mark
6	(b)	(i)	These points The layout does not help employees make sense of the documentation The text is too large to read comfortably There are spelling mistakes and grammatical errors	3 marks
6	(b)	(ii)	Any reasonable, for example The text is right justified The text does not use bullets/paragraphs/emphasis or similar to help employees make sense of it, 1mark each NOT answers to 6bi	1 mark
6	(c)		These points As help in the software On a website As a .pdf file saved on a USB memory stick	3 marks
6	(d)	(i).	This point C, Implementation	1 mark
6	(d)	(ii)	This point D, Testing	1 mark
6	(d)	(iii)	This point B, Design	1 mark
6	(d)	(iv)	This point A, Specification	1 mark
			Total	15 marks

7	(a)	(i)	This point B, bar code reader	1 mark
7	(a)	(ii)	This point E, keyboard	1 mark
7	(a)	(iii)	This point C, book	1 mark
7	(b)		These points If the bar code cannot be read by the ICT system the librarian enters the number Most people cannot read bar codes	2 marks
7	(c)	(i)	These points The code is data The code is qualitative	2 marks
7	(c)	(ii)	These points The code on the ICT system has not been updated recently Whether the condition of the book is judged as worn or good can vary from one person to another	2 marks
7	(d)	(i)	This point B, the ICT technician	1 mark
7	(d)	(ii)	These points in any order E, the librarian F, pupils	2 marks
7	(e)		These points The school library has over 50,000 books There are 2,000 pupils attending the school Pupils use the library to look for information to help with their homework	3 marks
			Total	15 marks

8	(a)	(i)	These points You can watch programmes after they have been on TV If you want to watch programmes later, you don't have to record them yourself	2 marks
8	(a)	(ii)	These points If your Internet Service Provider (ISP) has a download limit, you are more likely to exceed it If the Internet is too slow, the picture could be jerky	2 marks
8	(a)	(iii)	These points Recorded on a DVD or VHS tape Recorded on a Hard Disk	2 marks
8	(b)	(i)	These points Modem Router	2 marks
8	(b)	(ii)	These points At least one of modem, router or wireless access point shown in any order – <i>1 mark</i> + In order from external network point: modem, router, wireless access point – <i>1 mark</i> Star network topology centred on one of wireless access point, router or modem, with at least 3 laptops and a desktop computer – <i>1 mark</i> Shows at least one wireless connection from a computer <u>to the Internet</u> – <i>1 mark</i> Shows at least one wired connection from a computer <u>to the Internet</u> – <i>1 mark</i> Shows a printer, external hard disk, scanner or other reasonable hardware – <i>max 2 marks</i>	4 marks
8	(c)		Any reasonable, for example NOT ways already mentioned in the question. NOT TV You can play a very wide variety of different games from home. You can play with people located <u>all over the world</u> or you can talk to and see your friends in different parts of the world or similar. You can use ICT at any time you wish, 24/7 Using a dance mat you can follow a keep fit programme at home whereas otherwise you would have to go to a gym. You don't have to be at home to monitor your home for security purposes as you can do this from anywhere in the world. You can shop on line from home. You can do your banking on line from home. You can find out information without going to the library. You can work from home. Music on the computer/Internet NOT Video without an example. Must differ from TV, e.g. YouTube, podcast NOT Films without an example. Must differ from TV, e.g. Blinkbox. Social networking or example (Facebook) E-mail or example (Outlook) Chat or example (MSN) NOT 'Communicate'	3 marks
			Total	15 marks

