



General Certificate of Secondary Education

**Information and Communication
Technology 3521F Full Course
*Specification A***

3521/F Foundation Tier

Mark Scheme

2009 examination - June series

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.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of candidates' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

Further copies of this Mark Scheme are available to download from the AQA Website: www.aqa.org.uk

Copyright © 2009 AQA and its licensors. All rights reserved.

COPYRIGHT

AQA retains the copyright on all its publications. However, registered centres for AQA are permitted to copy material from this booklet for their own internal use, with the following important exception: AQA cannot give permission to centres to photocopy any material that is acknowledged to a third party even for internal use within the centre.

Set and published by the Assessment and Qualifications Alliance.

1	(a)	B E H	Any 2 x1 Correct answer only	2
1	(b)	D G	Any 1 x 1 Correct answer only	1
1	(c)	A C	Correct answer only	2
1	(d)	F	Correct answer only	1
2	(a)	D	Correct answer only	1
2	(b)	A	Correct answer only	1
2	(c)	B	Correct answer only	1
2	(d)	C	Correct answer only	1
3	(a)	D	Correct answer only	1
3	(b)	B	Correct answer only	1
3	(c)	B	Correct answer only	1
4	(a)	G	Correct answer only	1
4	(b)	B	Correct answer only	1
4	(c)	F	Correct answer only	1
4	(d)	A	Correct answer only	1
5	(a)	C	Correct answer only	1
5	(b)	B	Correct answer only	1
6	(a)	They do not have to spend money on travelling to work each day	Correct answer only	1
		They do not have to spend time travelling to work each day	Correct answer only	1
6	(b)	Work can take longer as it is easier to be distracted at home	Correct answer only	1
		They feel out of touch with those who work at head office every day	Correct answer only	1

7	<p>Mark only the first four fields. Do NOT count those below, NOT "Surname, First name, Address1, Address 2, Address 3 as already given in the question. Or street, town, city etc. Ignore correct duplicate fields e.g. 3rd telephone number – these do not count in the FOUR</p> <p>Title at least 3 Postcode at least 7 (or clear 3box gap 3 box) Telephone number (day) at least 11 Telephone number (evening) at least 11 Contact tel. Number at least 11 Mobile tel. Number at least 11</p> <p style="text-align: center;">NOTE MAX TWO TELEPHONE NUMBERS</p> <p>Fax number at least 11 E-mail address at least 20(sensible splits)/memo Date of Birth at least 8(2-2-2/4) Date of registered at least 8(2-2-2/4) Favourite genre at least 10/list at least 3 options Machine owned at least 10 Signature memo Photo suitable box</p> <p>Not gender NB – could use the date at end of form Boxes only unless memo specified [] – open boxes are OK – boxes with small vertical lines are OK but dashes are NOT. Memo = lines/dashes/large box/dots IGNORE FILLING IN Tick correct field name – do not penalise lack of capitals Tick correct no. of boxes/memo field for corresponding field name. Count ticks - divide by 2 - round down MAX 4 marks</p>	4
8	<p>(a) Larger text Bold text Centre text</p>	Any 1 x 1 mark 1
8	<p>(b)</p> <ul style="list-style-type: none"> • Underline/italic • Bullet points/numbering • Text font type changed/Word art used • Coloured(text)/highlight colour • Tab <p>NB – cannot repeat any answer their answers from (a)</p>	Any 1 x 1 mark 1

8	(c)	<ul style="list-style-type: none"> • Picture/clipart added/graphic/logo • Drawing tools/auto shape • Tables • Font size made smaller • Text boxes • Borders/Border Art • Background – (pattern/shade/watermark)/colour • Text right justify • Change the line spacing • Template <p>Not just font by itself – or just change font. *** Cannot use any repeat answers from their answers to parts (a) or (b) in section (c) *** Can use answers from (a) or (b) in part (c) if not repeats from their answer to part (a) or (b). *** One bullet point can only score one mark.</p> <p>1 mark each for feature</p>	Any 3 x 1 mark	3
9	(a)	A H	Correct answer only	2
9	(b)	E	Correct answer only	1
9	(c)	B or I	Correct answer only	1
10	(a)	Stock number	Correct answer only	1
10	(b)	(i)	It has the same key field as a book already in the list / key field must be unique/ (Stock) Number has already be used for 'The End' (another record).	1
10	(b)	(ii)	Set up an auto key field generated by the computer Set up a suitable data validation routine (suitable description). Set up a primary key Not verification	1
			Any 1 x 1 mark	
10	(c)	(i)	Number in stock -3 (below zero) / cannot have a negative number in stock/ impossible value	1
10	(c)	(ii)	Data validation	1
10	(d)	(i)	A1013 A1024 (ignore, . space ok)	1
10	(d)	(ii)	A1035	1
11	(a)	Spreadsheet	Correct answer only	1
11	(b)	D11	Correct answer only	1
11	(c)	Currency	Correct answer only	1
11	(d)	=sum(D5:D13) allow D14 or D15 instead of D13 = D5+D6+D7+D8+D9+D10+D11+D12+D13 (+D14+D15) allow = sum(D5+D6+D7+D8+D9+D10+D11+D12+D13) (+D14+D15) allow = D5+D6+D7+D8+D9+D10+D11+D12+D13 (+D14+D15) allow with no = sign		1

11	(e)	<p>Reduce the cost of any item/ Reduce the number bought/ Take out an item</p> <p>*****</p> <p>Check to see if the costs are now within budget/validation</p> <p>*****</p> <p>If not- continue to reduce/ process is cyclic NOT vague statements such as “change”</p>	Any 2 x 1 mark	2																				
12	(i)	Encryption	Correct answer only	1																				
12	(ii)	Sorting files	Correct answer only	1																				
12	(iii)	Real time processing	Correct answer only	1																				
12	(iv)	Generation of master files	Correct answer only	1																				
12	(v)	File dumps (allow transaction processing)	Correct answer only	1																				
13	(a)	<p>Items need not be in the order given below (but must be grouped as given)</p> <p>- ignore spelling mistakes, capitals & wrong telephone no. - ok, with or without the words Date, Where etc. - does not need title General Details</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 40%;">Name of musical</td> <td style="width: 30%;">Admission</td> <td style="width: 20%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>Grease</td> <td>Adults</td> <td>- £3</td> <td></td> </tr> <tr> <td></td> <td>Child/OAPs</td> <td>- £1.50</td> <td style="vertical-align: bottom;">1</td> </tr> </table> <p>General Details</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 40%;">Dates</td> <td style="width: 60%;">- 23rd to 25th June 2009</td> </tr> <tr> <td>Where</td> <td>- Lancre School Hall</td> </tr> <tr> <td>Time</td> <td>- 7 pm</td> </tr> <tr> <td>Ring Lancre</td> <td>01238 767676 for more details</td> </tr> </table> <p style="text-align: right;">1</p> <p>Good/Reasonable layout</p> <p>- at least 5 entries - some attempt at positioning (not take much)</p> <p style="text-align: right;">1</p>	Name of musical	Admission			Grease	Adults	- £3			Child/OAPs	- £1.50	1	Dates	- 23 rd to 25 th June 2009	Where	- Lancre School Hall	Time	- 7 pm	Ring Lancre	01238 767676 for more details		
Name of musical	Admission																							
Grease	Adults	- £3																						
	Child/OAPs	- £1.50	1																					
Dates	- 23 rd to 25 th June 2009																							
Where	- Lancre School Hall																							
Time	- 7 pm																							
Ring Lancre	01238 767676 for more details																							
13	(b)	<p>The indication must be clear to get the mark.</p> <ul style="list-style-type: none"> • An arrow pointing at where the feature would be used • Written next to the feature /place to be used • Written in words as to where the feature will be used <p>Coloured text - indicate any of the following:- - could be a repeat of above</p> <p>headings/date/where/time/price/tel no. any “block of details”</p> <p>Importing clip-art</p> <ul style="list-style-type: none"> - indicate any suitable placing (of pic/logo) - must say what the picture is (not just the word picture) - one picture is enough (sensible picture – accept most) - sensible position (accept most) 		1																				

13	(c)	<p>Coloured text - reason for coloured text</p> <ul style="list-style-type: none"> • Looks more attractive/interesting • Looks more professional • Makes text stand out/grabs peoples attention • Clearer to read 	1	
		<p>Importing clip-art - reason for use of clip-art</p> <ul style="list-style-type: none"> • Looks more attractive/interesting • Produces professional layouts • Produces interesting layouts • Grabs peoples attention • Shows people what is happening 	1	
14		<p>Stage 1 – look for DOWN 6 CLOSE *****</p> <p>Stage 2 – look for UP 1 (OR UP2 to UP9) - Think of this as UP n *****</p> <p>Stage 3 – look for RIGHT 7 DOWN 2 (OR DOWN3 to DOWN8) - Think of this as UP n+1 OPEN *****</p> <p>Stage 4 – returns the grip to the starting position UP 7 LEFT 7 This needs to be checked from the OPEN command Must not crash into the dock</p>	1 1 1 1	
15	(a)	(i)	<ul style="list-style-type: none"> • Face to face discussion • Immediate feedback • Can read people / facial expressions • Ask follow up questions • High percentage response <p style="text-align: right;">Any 1 x 1 mark</p>	1
15	(a)	(ii)	<ul style="list-style-type: none"> • You can see exactly what is happening / seeing things for yourself • Employees cannot lie/ Often a more accurate picture/ gives factual information/unbiased • Can see things not thought about in advance • No time taken answering questions/does not interfere with business <p style="text-align: right;">Any 1 x 1 mark</p>	1
15	(b)	(i)	<p>Questionnaires / surveys (not just forms) Looking at company documentation</p> <p style="text-align: right;">Correct answer only</p>	1
15	(b)	(ii)	<p>This answer is dependant on (b) (i) Cheap to produce Cheap to administer / no need for anyone else to be present Can be filled in/ done at any time Anonymous Collect a lot of information (quickly)</p> <p style="text-align: right;">Any 1 x 1 mark</p>	1

15	(c)	(i)	Help facilities	Correct answer only	1
15	(c)	(ii)	Use of colour Use of sound Use of images / pictures / graphics Position of items on screen House style/ professional appearance /consistency of layout User friendly/easy to use/easy to navigate	Any 1 x 1 mark	1
16	(a)	(i)	Part of a record Contains one piece of information Heading for a column Any suitable example e.g. contains an item such as the surname	Any 1 x 1 mark	1
16	(a)	(ii)	Part of a file/ collection of related fields Information/fields relating to one person /member All information in a row of a database Any suitable example e.g. details about ONE member	Any 1 x 1 mark	1
16	(b)		Staff would need training	Correct answer only	1
16	(c)		Faster to search/find (NOT easier) Faster to sort/sort on multiple fields Faster/easier to edit/update Takes up less space Backup data Less/No chance of losing/misplacing records on a computer Faster/neater to graph data Access from outside Sports centre Faster/more attractive generation of reports Access by several people at one time Export to other applications (mail-merge, e-mail) More secure because	NOT easy to use Any 2 x 1 mark	2
17	(a)		Software	Correct answer only	1
17	(b)		Manages the allocation of CPU time Manages the system security	Correct answer only Correct answer only	1 1
17	(c)		Real time Batch processing Multi-user Multi-access Accept Windows (XP, Vista, etc.) and Linux	Any 1 x 1 mark	1