



**General Certificate of Secondary Education**

**Information and Communication  
Technology 3528 Short Course**

*Specification B*

**3528/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.

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1	(a)	These points The style of text has been changed to bold The font has been changed	2 marks
1	(b) (i)	This point word art Allow misspellings	1 mark
1	(b) (ii)	This point an autoshape Allow misspellings	1 mark
1	(c) (i)	These points Hard disk DVD-RW	2 marks
1	(c) (ii)	These points The new menu has a larger file size than the old menu The new menu loads more slowly than the old menu	2 marks
<b>Total</b>			8 marks
2	(a)	This point Spreadsheet	1 mark
2	(b)	This point 3 cans of gloss paint are needed at a cost of £10.00 each	1 mark
2	(c)	These points, max 1m A1, allow B1 and C1 A3, B3, C3, D3 A4, A5, A7, A8 C10, allow A10 and B10 NOT A6	1 mark
2	(d) (i)	B (=B6*C6)	1 mark
2	(d) (ii)	This point A (=SUM(D4:D8))	1 mark
2	(e)	These points The decorator can rely on the software to do accurate calculations if it has been set up correctly The software can be reused for other clients saving the decorator time and effort	2 marks
2	(f)	These points Laptop	1 marks
<b>Total</b>			8 marks

3	(a)	This point 6	1 mark
3	(b) (i)	Any reasonable, for example The key field must be unique Because it is the same as Wolf's	1 mark
3	(b) (ii)	These points The database should automatically check that the Patient Numbers are correct	1 mark
3	(c)	Any reasonable, for example They were both born on the same day It doesn't matter if two dates of birth are the same as it's not the key field.	1 mark
3	(d) (i)	This point Gender	1 mark
3	(d) (ii)	These points It is faster to enter the data Less space is needed to store the data on backing storage	2 marks
3	(d) (iii)	This point The length of the code is much shorter than the original data	1 mark
			<b>Total</b> 8 marks
4	(a) (i)	This point The web page for Willow Cottage would be saved as hazelcottage.htm	1 mark
4	(a) (ii)	This point Save As	1 mark
4	(b)	These points Number of people If pets are welcome Date of holiday	3 marks
4	(c) (i)	This point C:\Holidays\Self-Catering\willowcottage.htm	1 mark
4	(c) (ii)	This point C:\Holidays\Self-Catering\Images\willowcottage.jpg	1 mark
			<b>Total</b> 7 marks

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- |   |           |  |         |
|---|-----------|--|---------|
| 5 | (a)       | <p>These points.</p> <p>You should not watch someone entering their password</p> <p>You should keep your password secret</p>   | 2 marks |
| 5 | (b) (i)   | <p>Any reasonable, for example</p> <p>Downloaded software may contain viruses</p> <p>Installing the software may cause the network to malfunction</p> <p>To stop people downloading software that is not relevant to their education</p>   | 1 mark  |
| 5 | (b) (ii)  | <p>Any reasonable, for example</p> <p>To prevent students maliciously deleting others' files</p> <p>To help prevent students copying each others' work</p> <p>You may have private files in your user area</p> <p>NOT a reason given elsewhere in 5b)</p>  | 1 mark  |
| 5 | (b) (iii) | <p>Any reasonable, for example</p> <p>To prevent students accessing inappropriate material, e.g. pornography</p> <p>To prevent students attempting to download music or software</p> <p>NOT a reason given elsewhere in 5b)</p>  | 1 mark  |
| 5 | (c)       | <p>Any reasonable, for example</p> <p>Reason: Students attempting to download files, 1m</p> <p>+ Solution: Block the downloads, 1m</p> <p>Reason: Some element of network hardware too slow/lacks capacity, 1m</p> <p>+ Solution: Upgrade the hardware, 1m</p> <p>Reason: Firewalls and filtering, 1m</p> <p>+ Solution: purchase dedicated hardware; educate users and remove some filters, 1m</p> <p>Allow: Reason: a large number of students using the network</p> <p>+ Solution: upgrade the network</p> <p>NOT Solution: stop students using the network</p> | 2 marks |

**Total** 7 marks

6 (a) These points 2 marks  
 Information on the availability of parking spaces can be displayed automatically  
 All the car parks ParkSafely own are run in very similar ways

6 (b) These points 2 marks  
 Estimate the cost of new software and hardware  
 Briefly describe what the proposed ICT system could be used for

6 (c) These points 2 marks

<b>Label</b>	Four in correct order, 1m All in correct order, 2m
D	
C	
E	
A	
B	

6 (d) This point 1 marks

Documentation	E
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**Total** 7 marks

7 (a) This point 1 mark  
 Magnetic stripe

7 (b) These points 2 marks  
 Absent pupils gave their identification cards to other pupils who registered for them  
 Some pupils registered using their identification cards then went home

7 (c) These points 2 marks  
 Ensure pupils can only enter and leave school through turnstiles which are operated using their identification cards  
 Teachers should closely supervise pupils who are registering using their identification cards

7 (d) These points 2 marks  
 The ICT system automatically contacts parents or carers to let them know if their children are absent  
 A record of a pupil's attendance is kept on the ICT system

**Total** 7 marks

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8	(a)	(i)	These points There is a shortage of accommodation in prisons A criminal can get used to living at home again before their prison sentence is complete	2 marks
8	(a)	(ii)	These points If the tag is removed, the police computer will not know the location of the criminal If the tag is out of range of the wireless network, the police computer will not know its location	2 marks
8	(b)	(i)	Any reasonable, for example If the dog is lost, the chip can be scanned, the owner identified and the dog returned to its owner NOT the owner can track the dog	1 mark
8	(b)	(ii)	Any reasonable, for example Can return dogs to their owners Can identify dogs causing damage and charge costs.	1 mark
8	(c)		Any reasonable, for example Use of a credit card Speed cameras Use of a mobile phone IP address ID cards NOT tagging social networking site, chip every citizen	2 marks

**Total** 8 marks