

GCSE 2004  
*June Series*



# Mark Scheme

## Information and Communication

### Technology

### Specification B

*3528/F*

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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.

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*Dr Michael Cresswell Director General*

**3528/F – Full Course Foundation Tier**

1.		
a.	These points. All 4 in the correct order, DBCA, 2 m 3 in order, 1m	2 marks
b.	These points. Inserts/imports the picture from the disk, 1m Or: cut/copy the file off disk and paste into the letter, 1m Or: open the picture in a graphic application and cut/copy it into the letter, 1m Or: drag the file from the disk and drop it in the letter, 1m Positions the picture in the letter, e.g. cursor in the correct position, moves the picture after importing, resizes, etc., 1m Wraps text round picture, 1m	2 marks
c.	These points. Click 'reply' on an email received from the manufacturer. Use the address book in the email software. Look at the manufacturer's web site.	3 marks
	Total for this question:	7 marks

2.		
a.	This point. spreadsheet	1 mark
b.		
i.	Any reasonable. For example: Cell reference of a cell other than A5 that contains text i.e. one of A1 to A4; A6; A7; B1; C1 accept A8 to A12; B8 to B12; C8 to C12	1 mark
ii.	This point. $B3 * C3$ or equivalent; allow $\text{sum}(B3 * C3)$ ; not $B3 \times C3$ , ignore =	1 mark
c.		
i.	Any reasonable input device. For example: keyboard, mouse	2 marks
ii.	These points. floppy disk; hard disk	2 marks
iii.	Any reasonable. Scan pictures of the bath, etc. The task must be reasonable in the context, e.g. 'Copy a picture' is reasonable but OCR is not.	1 mark
	Total for this question:	8 marks

3.		
a.		
i.	This point. Circles Wrig75	1 mark
ii.	This point. When the Patient Name has been input, the clerk checks again that the Patient Name on the monitor is the same as that on the form.	1 mark
b.	These points. A key field cannot be empty. A key field must have a different value in every record.	2 marks
c.	These points. The coded information takes up less space on backing storage. The clerk can input the coded information faster.	2 marks
d.	These points. Patient Name                      In the order shown, 2m Feather                                5 in order, 1m Iqbal                                     In reverse order, all correct, 1m McLoughlin Morgan Rooney Wrig75	2 marks
Total for this question:		8 marks

4.		
a.	These points, bar code reader keyboard	2 marks
b.	This point. To record who has borrowed a book, both the pupil and the book must be identified.	1 mark
c.	These points. Includes a fileserver and at least 3 computers in a correct topology (star, bus or line), 1m	3 marks
	Includes a printer, 1m Includes a bar code reader, 1m Includes other reasonable facilities, e.g. CD drive, connection to other network, etc., 1m	
d.	These points. the network manager; ignore other answers, 1m librarians; ignore other answers, 1m	2 marks
Total for this question:		8 marks

5.															
a.	<p>These points.</p> <table border="1"> <tr> <td>clearscreen</td> <td>ignore</td> </tr> <tr> <td>forward 2</td> <td rowspan="3">first 3 instructions correct, 1m</td> </tr> <tr> <td>left 90</td> </tr> <tr> <td>forward 3</td> </tr> <tr> <td>left 90</td> <td rowspan="4">remaining instructions correct, 1m</td> </tr> <tr> <td>forward 2</td> </tr> <tr> <td>left 90</td> </tr> <tr> <td>forward 3</td> </tr> <tr> <td>left 90</td> <td>ignore</td> </tr> </table> <p>Syntax correct throughout, 1m</p>	clearscreen	ignore	forward 2	first 3 instructions correct, 1m	left 90	forward 3	left 90	remaining instructions correct, 1m	forward 2	left 90	forward 3	left 90	ignore	3 marks
clearscreen	ignore														
forward 2	first 3 instructions correct, 1m														
left 90															
forward 3															
left 90	remaining instructions correct, 1m														
forward 2															
left 90															
forward 3															
left 90	ignore														
b.	<p>These points.</p> <p>Starts with B and ends with D, 1m</p> <p>Correct labels in other boxes, 1m each</p> <p>A</p> <p>C</p> <p>FE</p>	5 marks													
Total for this question:		8 marks													

6.		
a.	<p>These points.</p> <p>You should never tell anyone else your password.</p> <p>You should change your password frequently.</p>	2 marks
b.		
i.	<p>These points.</p> <p>If the building burns down, all the computers could be destroyed.</p> <p>Another student using the computer could delete the work.</p>	2 marks
ii.	<p>This point.</p> <p>copy</p>	1 mark
iii.	<p>Any reasonable. For example.</p> <p>Make a copy on backing storage media, e.g. floppy disk, zip, etc. (accept the computer's hard disk). It should be clear there are two different copies.</p>	1 mark
c.	<p>Any reasonable. For example.</p> <p>To prevent the student installing viruses hidden in the downloaded software.</p> <p>Installing the downloaded software may damage software already installed.</p> <p>Not: to prevent pupils downloading pornography.</p>	1 mark
Total for this question:		7 marks

7.		
a.		
i.	This point. teleworking	1 mark
ii.	These points. At home, the accountant's working hours are more flexible. The accountant does not have to waste time travelling to work every day.	2 marks
iii.	These points. The accountant feels out of touch compared with colleagues who work at the firm's head office every day. It can take longer to get work done at home as there can be more distractions.	2 marks
b.	Any reasonable. For example: Health hazard: eye strain How to avoid the health hazard: take a short break regularly	2 marks
	Total for this question:	7 marks

8.		
a.		
i.	Any reasonable. For example. The advertising agency's clients want to sell goods to Cotex's customers.	1 mark
ii.	Any reasonable. For example. Customers will receive even more junk mail.	1 mark
iii.	Any reasonable. For example. Any reasonable interpretation of custom and practice in implementing data protection legislation. For example, Cotex's customers' personal information should only be used for the purposes for which it was collected. It contravenes data protection legislation.	1 mark
b.		
i.	Any reasonable. For example. A computer is less likely to make a mistake than a person using the ICT system.	1 mark
ii.	Any reasonable. For example. The assistant is using a computer that has customers' details stored on it.	1 mark
c.		
i.	This point. Experience religious insights and prayer.	1 mark
ii.	This point. Control the operation of traffic lights.	1 mark
	Total for this question:	7 marks