

# **Information & Communication Technology B**

General Certificate of Secondary Education **GCSE 1995**

General Certificate of Secondary Education (Short Course) **GCSE 1095**

## **Mark Schemes for the Units**

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**January 2007**

**1995/1095/MS/R/07J**

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by Examiners. It does not indicate the details of the discussions which took place at an Examiners' meeting before marking commenced.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the Report on the Examination.

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## **MARK SCHEME FOR THE UNITS**

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**Mark Scheme 2380/01  
January 2007**

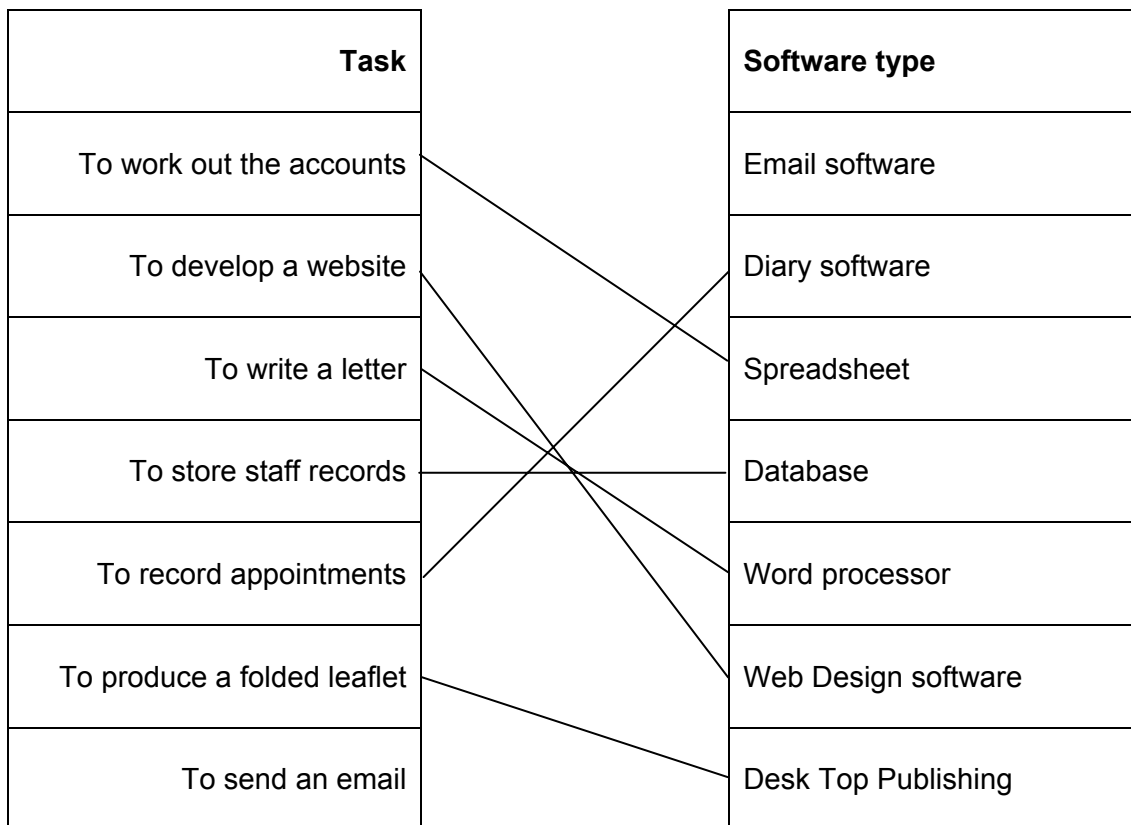
**No half marks.**

No credit for named software, unless qualified.

No marks for 'quicker', 'easier', 'cheaper', 'more efficient' unless further explanation relevant to the question is given.

Each line on the mark scheme below is worth one mark unless clearly shown otherwise. Items separated by / are alternatives. Items in brackets are not compulsory for the mark.

**1**



**[6]**

2 (a)	One mark for: <ul style="list-style-type: none"> <li>• Mobile phone</li> <li>• Land line with phone</li> <li>• PDA.</li> </ul>	1
(b)	One mark for valid answer eg: <ul style="list-style-type: none"> <li>• No need to print</li> <li>• Received wherever they are</li> <li>• Easy to access</li> <li>• Always on hand.</li> </ul>	1
(c)	For each benefit up to two eg: <ul style="list-style-type: none"> <li>• Quick</li> <li>• Easy to automate</li> <li>• Cheaper than paying for postage and paper</li> <li>• Easy to track what has been sent.</li> </ul>	2
(d)	One mark for each method up to two eg: <ul style="list-style-type: none"> <li>• Post (traditional)</li> <li>• Telephone (landline)</li> <li>• Personal visit.</li> </ul>	2
3 (a)	One mark for valid statement eg: <ul style="list-style-type: none"> <li>• Confidential</li> <li>• Sensitive</li> <li>• Data Protection Act</li> <li>• Not allowed to print etc.</li> </ul> <p>Additional mark for any valid expansion eg:</p> <p>Example answers: Some areas of the network could contain confidential information on patients (two marks).</p>	2
(b)	One mark for each correctly stated point up to two marks: <ul style="list-style-type: none"> <li>• Password protected (one mark)</li> <li>• A fire wall could be used (one mark)</li> <li>• Access rights (one mark).</li> </ul>	2

<b>4</b>	<b>(a)</b>	One mark for graphics package or art package. No marks for brand names.	<b>1</b>
	<b>(b)</b>	<p>One mark for each correctly stated change. One mark for any valid description given. A valid description is one that WOULD achieve the change.</p> <p>Example answers:</p> <p>Centred Use alignment tool or highlight then click on centre icon or any other method that would achieve the stated result.</p> <p>Enlarged graphic Use transform or scale tool, drag the handle on the corner of the graphic or any other method that would achieve the stated result.</p> <p>Changed font Text editor or highlight and click on arrow in fonts box, choose new font from list or any other method that would achieve the stated result.</p> <p>Added capitals Text editor or highlight and click on arrow in format box, choose caps from list or delete, press caps lock and replace or any other method that would achieve the stated result.</p> <p>Rotated Rotate tool or free transform tool, click on graphic and drag turn arrow, use tools drop down or any other method that would achieve the stated result.</p> <p>Curved writing Follow path tool or use art fonts option or any other method that would achieve the stated result.</p> <p>Enlarged font Point size editor or highlight and use drop down font size menu or any other method that would achieve the stated result.</p>	<b>8</b>
<b>5</b>	<b>(a)</b>	<p>One mark for computer (system), the other for any piece of hardware including:</p> <ul style="list-style-type: none"> <li>• Telephone</li> <li>• Cable</li> <li>• Modem etc.</li> </ul>	<b>2</b>
<b>5</b>	<b>(b)</b>	One mark for Download.	<b>1</b>
	<b>(c)</b>	One mark for they may contain a virus or Trojan.	<b>1</b>
	<b>(d)</b>	One mark for <u>Run</u> a virus checker. (scan)	<b>1</b>



<b>6</b>	<b>(a)</b>	One mark for Reference.	<b>1</b>
	<b>(b)</b>	One mark for unique and the second mark for patients could have same name or similar comment referring to the need for something unique.	<b>2</b>
	<b>(c)</b>	One mark for Date of Birth.	<b>1</b>
	<b>(d)</b>	One mark for 8.	<b>1</b>
	<b>(e)</b>	One mark for 6	<b>1</b>
	<b>(f)</b>	One mark for any valid use, eg: To record dental history To search for personal information on patients To record addresses and contact details (only one mark for storing contact details) To store x-rays Employee records.	<b>3</b>
<b>7</b>		First four marks for:  One mark for Name One mark for Address One mark for Date of Birth One mark for Postcode.  Additional two marks for any two of the following: One mark for telephone number One mark for email One mark for a space to write eg boxes, dotted lines etc.  Extra mark for layout eg size of entry boxes etc Extra mark for clarity.	<b>8</b>
<b>8</b>	<b>(a)</b>	One mark for input text and the other for any valid reason eg type letter, enter appointment, enter names into the database etc.	<b>2</b>
	<b>(b)</b>	One mark for input numbers and the other for any valid reason eg type invoice, enter appointment, enter numbers into the database etc.	<b>2</b>
	<b>(c)</b>	One mark for navigation and the other for any valid reason eg navigating around a letter, website, database etc.	<b>2</b>
	<b>(d)</b>	Answer: One mark for preset or shortcut keys and one mark for any valid function up to two eg print, volume, resolution etc. A mark can also be given for stating that you can alter the function but only two marks can be awarded overall.	<b>2</b>



**Mark Scheme 2380/02  
January 2007**

**No half marks.**

No credit for named software, unless qualified.

No marks for 'quicker', 'easier', 'cheaper', 'more efficient' unless further explanation relevant to the question is given.

Each line on the mark scheme below is worth one mark unless clearly shown otherwise. Items separated by / are alternatives. Items in brackets are not compulsory for the mark.

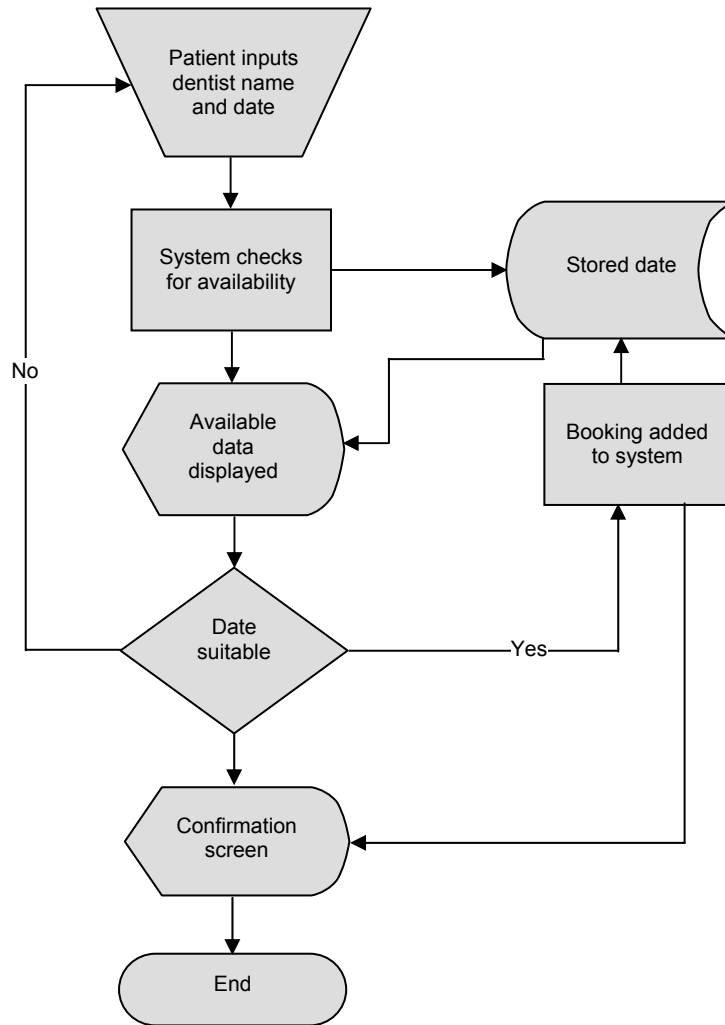
1	<p>One mark for each correctly stated change.</p> <p>One mark for any valid description given.</p> <p>Example answers:</p> <ul style="list-style-type: none"> <li>• Centred <ul style="list-style-type: none"> <li>- Use alignment tool or highlight then click on centre icon or any other method that would achieve the stated result.</li> </ul> </li> <li>• Enlarged graphic <ul style="list-style-type: none"> <li>- Use transform or scale tool, drag the handle on the corner of the graphic or any other method that would achieve the stated result.</li> </ul> </li> <li>• Changed font <ul style="list-style-type: none"> <li>- Text editor or highlight and click on arrow in fonts box, choose new font from list or any other method that would achieve the stated result.</li> </ul> </li> <li>• Added capitals <ul style="list-style-type: none"> <li>- Text editor or highlight and click on arrow in format box, choose caps from list or delete, press caps lock and replace or any other method that would achieve the stated result.</li> </ul> </li> <li>• Rotated <ul style="list-style-type: none"> <li>- Rotate tool or free transform tool, click on graphic and drag turn arrow, use tools drop down or any other method that would achieve the stated result.</li> </ul> </li> <li>• Curved writing <ul style="list-style-type: none"> <li>- Follow path tool or use art fonts option or any other method that would achieve the stated result.</li> </ul> </li> <li>• Enlarged font <ul style="list-style-type: none"> <li>- Point size editor or highlight and use drop down font size menu or any other method that would achieve the stated result.</li> </ul> </li> </ul>	8
2 (a)	<p>One mark for any valid answer.</p> <p>Example answers:</p> <ul style="list-style-type: none"> <li>• Diary software (one mark)</li> <li>• Agenda software (one mark)</li> <li>• Database (one mark).</li> </ul>	1
(b)	<p>One mark for any valid answer.</p> <p>Example answers:</p> <ul style="list-style-type: none"> <li>• Email (one mark)</li> <li>• Internet (one mark)</li> <li>• Private network (one mark).</li> </ul>	1

<b>(c)</b>	One mark for any valid answer. Example answers: <ul style="list-style-type: none"> <li>• Word processor (one mark)</li> <li>• DTP package (one mark).</li> </ul>	<b>1</b>
<b>(d)</b>	One mark for correct answer. <ul style="list-style-type: none"> <li>• DTP package (one mark)</li> <li>• Graphics package (one mark).</li> </ul>	<b>1</b>
<b>(e)</b>	One mark for any valid answer. Example answers: <ul style="list-style-type: none"> <li>• Graphics package (one mark)</li> <li>• Photo manipulation package (one mark)</li> <li>• Animation package (one mark).</li> </ul>	<b>1</b>
<b>(f)</b>	One mark for correct answer. <ul style="list-style-type: none"> <li>• Database (one mark).</li> </ul>	<b>1</b>
<b>3</b>	One mark for any valid answer. Example answers: <ul style="list-style-type: none"> <li>• Post (traditional)</li> <li>• Telephone (landline)</li> <li>• Personal visit.</li> </ul>	<b>2</b>
<b>4 (a)</b>	One mark for any valid answer. Example answers: <ul style="list-style-type: none"> <li>• Version control (one mark)</li> <li>• File names with dates (one mark)</li> <li>• Locking the file (one mark)</li> <li>• Backing up files (one mark).</li> </ul> <p>Eg I would lock the file then it would not be possible to overwrite it (two marks) – one mark for filename one mark for valid reason.</p>	<b>4</b>
<b>(b)</b>	One mark for each valid method and one mark for description/example of structure. Example answers: Methods could include: <ul style="list-style-type: none"> <li>• Folder structure</li> <li>• File naming conventions</li> <li>• User areas.</li> </ul> <p>Descriptions could include: I would put the customer name in the file name so file could be sorted by name (two marks one for filename one for valid reason).</p>	<b>4</b>

<p><b>5</b></p>	<p>One mark for each valid reason that must be linked to a dentist's needs, these are defined below.</p> <p>1 mark is given for each of the following concepts being mentioned:</p> <ul style="list-style-type: none"> <li>• Speed</li> <li>• Compatibility</li> <li>• Ease of use.</li> </ul> <p>Up to 4 marks are then given for expansion or comparison of the above or other points IF related to the dentist, e.g. quality of scan will not be needed for scanning text.</p> <p>1 mark can be given for mentioning training needs.</p> <p>1 mark can also be given for a conclusion.</p> <p>Only 8 marks can be given overall even though 9 mark points are given above.</p>	<p><b>8</b></p>								
<p><b>6</b></p>	<table border="1"> <thead> <tr> <th>Operator</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>&gt;</td> <td>Greater than</td> </tr> <tr> <td>&lt;=</td> <td>Less than or equal to</td> </tr> <tr> <td>&lt;&gt;</td> <td>Not equal to</td> </tr> </tbody> </table> <p>One mark for each correct entry.</p>	Operator	Description	>	Greater than	<=	Less than or equal to	<>	Not equal to	<p><b>3</b></p>
Operator	Description									
>	Greater than									
<=	Less than or equal to									
<>	Not equal to									

7

8



One mark for each of the following elements (max three marks)

- Human input of data
- Data file
- Screen display.

One mark for each of any two correct symbols used (max two marks)

- One mark for feedback loop
- One mark for a decision box
- One mark for arrows.



<b>8</b>	<b>(a)</b>	One mark for any valid answer.  Example answers: (=)B2*C2 Many spreadsheet packages do not use an = sign B2*C2  Will accept x for *  If the formula WOULD work it is acceptable.	<b>1</b>
	<b>(b)</b>	Any THREE from the following answers: D5 E5 F5 G5 Accept descriptions but then a maximum of 2 marks overall.	<b>3</b>
	<b>(c)</b>	Amount already earned this year (one mark).	<b>1</b>
<b>9</b>	<b>(a)</b>	Reference (one mark).	<b>1</b>
	<b>(b)</b>	One mark for each correctly stated point up to two marks.  Example answers: <ul style="list-style-type: none"> <li>• Unique field (one mark)</li> <li>• Patients could have same name or similar comment referring to the need for something unique (one mark).</li> </ul>	<b>2</b>
<b>10</b>	<b>(a)</b>	One mark for each correctly stated point up to two marks.  Example answers:  A formula tells to computer how to use the contents of cells in calculations (one mark).  A formula is a sequence of: <ul style="list-style-type: none"> <li>• Values (one mark)</li> <li>• Call references (one mark)</li> <li>• Names (one mark)</li> <li>• Functions (one mark)</li> <li>• Operators (one mark).</li> </ul> One mark for expansion or example, eg Formulae can be changed.	<b>2</b>
	<b>(b)</b>	A function is a pre-defined formula or action (one mark).  One mark for any valid expansion, eg an example of a function, eg Lookups or for a description of use.	<b>2</b>

(c)	<p>One mark for each valid point (up to three marks) and one for applying answers to the dentist context. One mark for correct reference to 'absolute' and one mark for correct reference to 'relative'.</p> <p>Example answers:</p> <ul style="list-style-type: none"> <li>• The software attempts to adjust your formulas (one mark)</li> <li>• So that the cell references they contain are still accurate (one mark)</li> <li>• This is called a relative reference (one mark)</li> <li>• A reference that can change automatically (one mark)</li> <li>• An absolute reference never changes when you insert rows or copy/move formulas (one mark).</li> </ul> <p>Expansion If the dentist copies a cell formula from one cell to another it changes the references to suit the new cell, (one mark) the dentist can total a number of different cost columns by copying a sum from one cell to others (one mark), this is called a relative cell reference (one mark).</p>	6												
11	<p>This question should be marked in two sections.</p> <p>Example answers:</p> <p><b>First section</b> One mark for any valid answer (max six marks).</p> <p>Example answers:</p> <ul style="list-style-type: none"> <li>• A clear structure for the website, eg tree diagram or simple rectangles linked (one mark)</li> <li>• Having the welcome page first (one mark)</li> <li>• Including all of the pages listed (one mark)</li> <li>• Linking the dental practice information page to the welcome page (one mark)</li> <li>• A link back to the welcome page from all other pages (one mark)</li> <li>• A clear indication of two way links (one mark).</li> </ul> <p><b>Second section</b> 2 marks for the addition of usable extra pages (one for each useful page up to two), eg a links to useful sites page, dental costs etc.</p>	8												
12	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">File name/extension</th> <th style="text-align: left;">Type of file</th> </tr> </thead> <tbody> <tr> <td>.wav .mid</td> <td>Sound files / Music</td> </tr> <tr> <td>.Jpeg .gif .tif .bmp</td> <td>Graphics files</td> </tr> <tr> <td>.mpg .mov .avi .flc</td> <td>Animation/video files/movie</td> </tr> <tr> <td>.htm .html</td> <td>Web documents</td> </tr> <tr> <td>pdf</td> <td>Portable Document Format accept Adobe OR Acrobat OR Document Format</td> </tr> </tbody> </table>	File name/extension	Type of file	.wav .mid	Sound files / Music	.Jpeg .gif .tif .bmp	Graphics files	.mpg .mov .avi .flc	Animation/video files/movie	.htm .html	Web documents	pdf	Portable Document Format accept Adobe OR Acrobat OR Document Format	5
File name/extension	Type of file													
.wav .mid	Sound files / Music													
.Jpeg .gif .tif .bmp	Graphics files													
.mpg .mov .avi .flc	Animation/video files/movie													
.htm .html	Web documents													
pdf	Portable Document Format accept Adobe OR Acrobat OR Document Format													

<b>13</b>	One mark for each correctly stated point up to six marks.  Example answers: Template is a pre defined document (one mark). Templates can be pre set and locked (one mark) so that the user cannot change them (one mark). This helps maintain house style (one mark). A style is a pre defined font, size etc that can be applied (one mark). A document wizard lets you choose from a pre defined list of options each time you use it (one mark). Templates are better if a similar style is needed every time (one mark). Wizards are easy to use (one mark) as they take you through stage by stage (one mark).	<b>6</b>
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**General Certificate of Secondary Education  
(Specification Code 1095/1995)  
January 2007 Assessment Series**

**Unit Threshold Marks**

Unit		Maximum Mark	a*	a	b	c	d	e	f	g	u
<b>2377F</b>	Raw	40	-	-	-	37	32	27	23	19	0
	UMS	55	-	-	-	48	40	32	24	16	0
<b>2377H</b>	Raw	40	39	35	31	28	23	20	-	-	0
	UMS	80	-	64	56	48	40	-	-	-	0
<b>2378</b>	Raw	64	60	51	42	34	28	23	18	13	0
	UMS	120	-	96	84	72	60	48	36	24	0
<b>2379</b>	Raw	64	60	51	42	34	28	23	18	13	0
	UMS	120	-	96	84	72	60	48	36	24	0
<b>2380F</b>	Raw	55	-	-	-	37	31	25	19	13	0
	UMS	55	-	-	-	48	40	32	24	16	0
<b>2380H</b>	Raw	80	54	47	40	33	25	21	-	-	0
	UMS	80	-	64	56	48	40	-	-	-	0

**Specification Aggregation Results**

Overall threshold marks in UMS (i.e. after conversion of raw marks to uniform marks)

	Maximum Mark	A*	A	B	C	D	E	F	G	U
<b>1095</b>	200	180	160	140	120	100	80	60	40	0

	Maximum Mark	A*	A	B	C	D	E	F	G	U
<b>1995</b>	400	360	320	280	240	200	160	120	80	0

The cumulative percentage of candidates awarded each grade was as follows:

	A*	A	B	C	D	E	F	G	U	Total No. of Cands
<b>1095</b>	4.87	21.21	43.07	65.35	79.79	88.04	93.81	96.87	100	1212
<b>1995</b>	0.35	12.85	44.79	67.36	82.99	93.06	96.18	97.57	100	288

**1500 candidates were entered for aggregation this series**

For a description of how UMS marks are calculated see;  
[http://www.ocr.org.uk/exam\\_system/understand\\_ums.html](http://www.ocr.org.uk/exam_system/understand_ums.html)

Statistics are correct at the time of publication



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