

Information & Communication Technology B

General Certificate of Secondary Education **GCSE 1995**

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

Mark Scheme for the Units

January 2009

1995/1095/MS/R/09J

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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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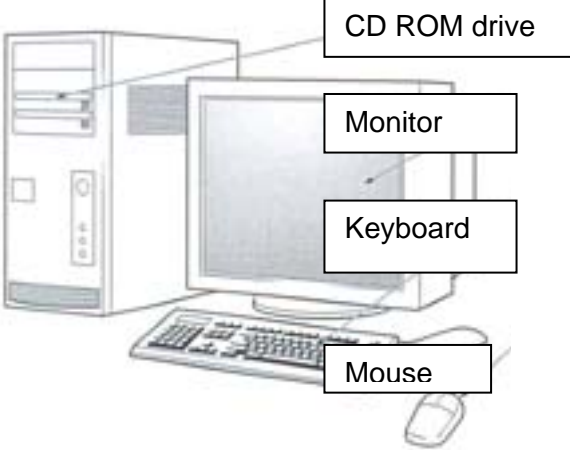
GCSE Information and Communication Technology B (1995)


GCSE Information and Communication Technology B (Short Course) 1095)

MARK SCHEMES FOR THE UNITS

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2380/01 Paper 3 (Foundation)

Question	Answer	Mark																																								
1	<p data-bbox="256 353 300 383">(a)</p>  <p data-bbox="352 887 778 916">One mark for each correct label.</p>	[4]																																								
(b)	<table border="1" data-bbox="352 956 1273 1335"> <thead> <tr> <th data-bbox="352 956 632 985">Device</th> <th data-bbox="639 956 842 985">Input</th> <th data-bbox="850 956 1053 985">Output</th> <th data-bbox="1061 956 1273 985">Storage</th> </tr> </thead> <tbody> <tr> <td data-bbox="352 1021 632 1050">Digital camera</td> <td data-bbox="639 1021 842 1050">✓</td> <td data-bbox="850 1021 1053 1050"></td> <td data-bbox="1061 1021 1273 1050"></td> </tr> <tr> <td data-bbox="352 1055 632 1084">DVD writer</td> <td data-bbox="639 1055 842 1084"></td> <td data-bbox="850 1055 1053 1084"></td> <td data-bbox="1061 1055 1273 1084">✓</td> </tr> <tr> <td data-bbox="352 1088 632 1117">Keyboard</td> <td data-bbox="639 1088 842 1117">✓</td> <td data-bbox="850 1088 1053 1117"></td> <td data-bbox="1061 1088 1273 1117"></td> </tr> <tr> <td data-bbox="352 1122 632 1151">Memory stick</td> <td data-bbox="639 1122 842 1151"></td> <td data-bbox="850 1122 1053 1151"></td> <td data-bbox="1061 1122 1273 1151">✓</td> </tr> <tr> <td data-bbox="352 1155 632 1184">Monitor</td> <td data-bbox="639 1155 842 1184"></td> <td data-bbox="850 1155 1053 1184">✓</td> <td data-bbox="1061 1155 1273 1184"></td> </tr> <tr> <td data-bbox="352 1189 632 1218">Plotter</td> <td data-bbox="639 1189 842 1218"></td> <td data-bbox="850 1189 1053 1218">✓</td> <td data-bbox="1061 1189 1273 1218"></td> </tr> <tr> <td data-bbox="352 1223 632 1252">Printer</td> <td data-bbox="639 1223 842 1252"></td> <td data-bbox="850 1223 1053 1252">✓</td> <td data-bbox="1061 1223 1273 1252"></td> </tr> <tr> <td data-bbox="352 1256 632 1285">Scanner</td> <td data-bbox="639 1256 842 1285">✓</td> <td data-bbox="850 1256 1053 1285"></td> <td data-bbox="1061 1256 1273 1285"></td> </tr> <tr> <td data-bbox="352 1290 632 1319">Touch pad</td> <td data-bbox="639 1290 842 1319">✓</td> <td data-bbox="850 1290 1053 1319">✓</td> <td data-bbox="1061 1290 1273 1319"></td> </tr> </tbody> </table> <p data-bbox="352 1370 1158 1435">One mark will be awarded for each correct answer. Maximum number of ticks is 9, deduct one mark for each additional tick.</p>	Device	Input	Output	Storage	Digital camera	✓			DVD writer			✓	Keyboard	✓			Memory stick			✓	Monitor		✓		Plotter		✓		Printer		✓		Scanner	✓			Touch pad	✓	✓		[9]
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Touch pad	✓	✓																																								

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2	<p data-bbox="352 264 778 293">One mark for each correct label.</p> <div data-bbox="264 331 628 454" style="border: 1px solid black; padding: 5px; width: fit-content;"> <p data-bbox="280 349 612 443">It is important to ensure there is a good backrest to avoid backache</p> </div> <div data-bbox="687 353 880 454" style="border: 1px solid black; padding: 5px; width: fit-content;"> <p data-bbox="703 371 865 434">Arms at 90 degrees</p> </div> <div data-bbox="954 309 1241 454" style="border: 1px solid black; padding: 5px; width: fit-content;"> <p data-bbox="970 327 1225 421">No trailing wires to prevent someone falling over them</p> </div> <div data-bbox="368 622 608 745" style="border: 1px solid black; padding: 5px; width: fit-content;"> <p data-bbox="384 640 568 734">The seat height should be adjustable</p> </div> <div data-bbox="608 465 999 801" style="text-align: center;">  <p>The diagram shows a person sitting at a desk with a computer monitor. Lines connect text boxes to specific ergonomic features: the backrest of the chair, the chair's base, the seat height, the chair's armrests, the desk's leg, and the area under the desk where wires are plugged.</p> </div> <div data-bbox="469 846 759 947" style="border: 1px solid black; padding: 5px; width: fit-content;"> <p data-bbox="485 864 711 927">The chair must have a firm base</p> </div> <div data-bbox="799 846 1086 947" style="border: 1px solid black; padding: 5px; width: fit-content;"> <p data-bbox="815 864 1054 927">A footrest helps to prevent backache</p> </div>	<p data-bbox="1337 1037 1374 1066" style="text-align: center;">[6]</p>

Question	Answer	Mark
3	<p data-bbox="252 259 300 293">(a)</p> <p data-bbox="352 259 687 293">One mark for a valid use.</p> <p data-bbox="352 327 1110 360">Address bar – you can type in/enter the (internet) address</p> <p data-bbox="352 394 1241 461">Sizing buttons – can be used to minimise/maximise/change the size of the window/screen</p> <p data-bbox="352 495 1155 562">Tabs – allows you to have more than one webpage open at a time/move between pages</p> <p data-bbox="352 595 1214 663">Favourites/Bookmarks – allows you to store/access/organise your favourite websites</p> <p data-bbox="352 696 1174 763">Scroll bar – can be used to scroll through/move up and down a document/page</p> <p data-bbox="352 797 1251 831">Viewing pane – the area where web pages/documents are displayed</p>	<p data-bbox="1337 831 1377 864">[6]</p>
	<p data-bbox="252 902 300 936">(b)</p> <p data-bbox="352 902 847 936">One mark for stating: data or data.pdf</p>	<p data-bbox="1337 902 1377 936">[1]</p>
	<p data-bbox="252 969 300 1003">(c)</p> <p data-bbox="352 969 836 1003">One mark for stating: www.travel-M8</p>	<p data-bbox="1337 969 1377 1003">[1]</p>

Question	Answer	Mark
<p>4</p>	<p>(a)</p> <p>One mark for each correct link as shown.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>User</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Someone on a limited budget who wants a desktop computer to access Travel-m8</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A person who wishes to explore interactive virtual travel sites produced by Travel-m8</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A person that has special needs due to a physical mobility problem</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A person who works on documents both in an office and at home</div> <div style="border: 1px solid black; padding: 5px;">A person who wants to use the system to access Travel-m8 whilst travelling</div> </div> <div style="width: 45%;"> <p>System</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A hand-held portable computer</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A computer with a very fast processor and a powerful graphics card</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A computer that is compatible with the systems used at work</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A basic PC that can handle applications but may be slow</div> <div style="border: 1px solid black; padding: 5px;">An adaptive computer which incorporates a voice synthesiser and one handed-keyboard</div> </div> </div>	<p>[5]</p>

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(b)	1 mark for each TWO correct ticks. 1 mark deducted for each tick over ten.	[5]																								
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(c)	<p>Four marks are available, one for each point.</p> <p>One mark for each valid point related to the context eg to get a hard copy of the maps (1)</p> <p>Candidate must indicate a reason for 1 mark (one each eg temporary and permanent) and a mark for explanation of where this is needed IN CONTEXT.</p> <p>Example of use eg Monitor:</p> <ul style="list-style-type: none"> • to get instant feedback on price of software • to explore effects of modelling currency changes • to view Travel-m8 customer records. <p>Printer:</p> <ul style="list-style-type: none"> • to get a hard copy of the software licence • to print out a customer order for software. 	[4]																								

Question	Answer	Mark
5	<p>(a) One mark for any of the following points:</p> <ul style="list-style-type: none"> • first page visitor will see/welcome/main page • links to other pages • basic information. 	[1]
	<p>(b) One mark for each valid point up to 2. Eg</p> <ul style="list-style-type: none"> • download page • order form • contact detail • inquiry • technical help 	[2]
	<p>(c) One mark for each valid keyword up to two eg</p> <ul style="list-style-type: none"> • software • travel • travel-m8 • holiday 	[2]
	<p>(d) Marks will be awarded for:</p> <p>Not too much information for homepage 1 Use of hyperlink(s) 1 Essential elements max 2 – one mark for each eg pictures/logo/maps, shop details, contact details, name of company, products Labels 1 mark for inclusion of at least three labels.</p>	[5]

Question	Answer	Mark
6	<p data-bbox="255 259 303 293">(a)</p> <ul data-bbox="351 259 973 616" style="list-style-type: none"><li data-bbox="351 259 598 293">• A program (1) <p data-bbox="351 324 893 358">Plus one additional mark for a valid point.</p> <ul data-bbox="351 358 973 616" style="list-style-type: none"><li data-bbox="351 358 614 392">• replicates itself<li data-bbox="351 392 598 425">• destroys data<li data-bbox="351 425 598 459">• corrupts data<li data-bbox="351 459 774 492">• can be transferred by email<li data-bbox="351 492 805 526">• can be transferred by network<li data-bbox="351 526 973 560">• can be transferred by disk/storage medium<li data-bbox="351 560 845 593">• can be transferred from websites	<p data-bbox="1332 571 1380 604">[2]</p>
	<p data-bbox="255 651 303 685">(b)</p> <p data-bbox="351 651 853 685">One mark for each correct way up to 2</p> <ul data-bbox="351 685 973 817" style="list-style-type: none"><li data-bbox="351 685 758 719">• use/install a virus checker<li data-bbox="351 719 901 752">• make sure virus checker is up to date<li data-bbox="351 752 893 786">• set to scan every disk when inserted<li data-bbox="351 786 973 817">• set up a schedule/regular anti-virus checks	<p data-bbox="1332 784 1380 817">[2]</p>

2380/02 Paper 3 (Higher)

Question	Answer	Mark
1	<p data-bbox="245 353 288 383">(a)</p> <p data-bbox="352 353 890 383">One mark for each correct link as shown.</p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="352 421 667 450" style="width: 45%;"> <p>User</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Someone on a limited budget who wants a desktop computer to access Travel-m8</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A person who wishes to explore interactive virtual travel sites produced by Travel-m8</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A person that has special needs due to a physical mobility problem</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A person who works on documents both in an office and at home</div> <div style="border: 1px solid black; padding: 5px;">A person who wants to use the system to access Travel-m8 whilst travelling</div> </div> <div data-bbox="820 421 1195 450" style="width: 45%;"> <p>System</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A hand-held portable computer</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A computer with a very fast processor and a powerful graphics card</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A computer that is compatible with the systems used at work</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">A basic PC that can handle applications but may be slow</div> <div style="border: 1px solid black; padding: 5px;">An adaptive computer which incorporates a voice synthesiser and one handed keyboard</div> </div> </div>	<p>[5]</p>

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(c)	<p>Four marks are available, one for each point.</p> <p>One mark for each valid point related to the context eg to get a hard copy of the maps (1)Candidate must indicate a reason for 1 mark (one each eg temporary/ being developed/see what you are doing and permanent / hard copy) and a mark for explanation of where this is needed IN CONTEXT.</p> <p>Example of use eg Monitor:</p> <ul style="list-style-type: none"> • to get instant feedback on price of software • to explore effects of modelling currency changes • to view Travel-m8 customer records. <p>Printer:</p> <ul style="list-style-type: none"> • to get a hard copy of the software licence • to print out a customer order for software. 	[4]																								

Question	Answer	Mark
2	<p>Eight marks are available, one for each point. One mark is given for any correct link between comment on image and a health and safety problem. The second mark is awarded for an expansion.</p> <p>1 Top one third of screen at or slightly below eye level Example answer: To avoid neck strain, (head movements) (1) position your monitor, within your 60° viewing field (1). You shouldn't need to tilt your head/neck in order to see it easily. (1)</p> <p>2 Monitor about 50 cm from body (arms length) Example answer: To avoid eyestrain, (1) position your monitor within a comfortable viewing distance (1). This also allows for the keyboard and other input devices, such as a mouse or trackball, positioned within comfortable distance (1) of each other.</p> <p>3 Feet flat on floor or on footrest, Example answer: (Use a footrest) to support your feet (1). A footrest helps to maintain proper posture, (1) supports the lower back (1) and increases circulation to the legs and thighs. (1)</p> <p>4 Back supported from pelvis to shoulder blades Example answer Back and leg pain or discomfort is usually attributed to posture (1) and the chair used. Seat position is important as it helps to prevent back pain (1). The picture shows the user leaning back slightly (1) with a well supported pelvis. (1) This distributes the body weight evenly(1)</p>	<p>[2]</p> <p>[2]</p> <p>[2]</p> <p>[2]</p>

Question	Answer	Mark
3	<p>One mark for each valid question up to max 7.</p> <p>Content</p> <p>Does the site cover the topic comprehensively? Can you understand what is being said? What is unique about this site? Does it offer something others do not? Are the links well-chosen? Sufficient? Can you tell: the date the information was created? The publication date? The date the material was last revised? Are these dates meaningful in terms of the subject matter? Would you get better information in a book? An encyclopaedia? Who is responsible for this site? Who sponsors it? What are his/her credentials? Have the authors of the site cited their own sources? Are the sources documented appropriately? What is the domain name? Does it end in .com, .gov, .edu, .org, .net? Is it a personal page? Who else links to the site? Is it linked to by reliable sites? What do other sites say about this one? Speed of download.</p> <p>Bias/Purpose:</p> <p>Why was this site created? (To persuade, inform, explain, sell, parody, promote, other?) Is it a personal, commercial, government or organisation site? Is there any bias? Is only one side of the argument presented? Is there a hidden message? Is it trying to persuade you or change your opinion? Does it appear that any information is purposely omitted? Is the bias useful to you in some way? Can you distinguish facts from opinion?</p> <p>Usability/design specialist</p> <p>Is the site easy to navigate (user-friendly)? Is there a well-labelled contents area? DO all the design elements (graphics, art, buttons, etc) enhance the message of this site? Is there consistency in the basic formats of each page?</p>	[7]

Question		Answer	Mark
4	(a)	<p>One mark for each problem identified. Up to max 2:</p> <p>An email spam is an unrequested mass mail out (1), usually sent to millions of users. Whilst many spam messages contain legitimate information many advertise illegal products. (1) Wastes user time (1) May contain a virus (1)</p>	[2]
	(b)	<p>One mark for each problem identified. Up to max 2:</p> <p>An email scam is an email sent by criminals (1) designed to collect money OR confidential information (1) from unsuspecting victims (1). May contain a virus (1)</p>	[2]
	(c)	<p>One mark for a valid point and one for expansion. Up to max 2:</p> <p>Phishing is a scam email or web site that looks official from a bank or legitimate company. (1) It is designed to get the user to divulge confidential information. (1)</p>	[2]
	(d)	<p>One mark for each valid point:</p> <p>Example answer: They could use a dictionary attack (1) - password dictionaries search for the most commonly used passwords in a password dictionary. (1) They could also use brute force attack (1) by using password cracking software (1) to try all possible keys for each password character (1). Sniffing is another way (1), it uses tracking software to record network traffic and thus capture passwords (1). Keystroke logging (1) to capture typed passwords(1). Accessing cookies from hard drive/network (1)</p>	[4]

Question	Answer	Mark
5	<p>One mark for integration in some way. One mark for each expansion point.</p> <p>The term refers to the integration (1) of different devices into a single handheld device (1) eg a mobile phone has a camera and mp3 player, camera etc built in (1). OR phones that now have facilities previously only had in separate devices (1) (as referring to integration) digital cameras, pdas, GPS and MP3 players all in one phone. (1 for examples and 1 for fact these are all in one device called a mobile phone). Mobile internet access from handheld device(1)</p>	[4]
6	<p>One mark for each valid point. Up to max 4:</p> <p>As intellectual property refers to the ownership of certain types of information, ideas or representations, (1) the use of these on the internet enables unscrupulous users to steal music, photos, software, written material or films (1). Before the use of digital technology, it was difficult and expensive for people to copy these materials. (1)</p>	[4]

Question	Answer	Mark
7	<p>Up to six marks should be given, this needs to be balanced. There must be at least one how, one why and one issue:</p> <p>How</p> <ul style="list-style-type: none"> • Sell it to a second-hand-computer shop. • Use it to play old games or upgrade it to use as a backup device or personal Web server. • Gift. If it's still breathing, donate it to a good cause or give it to a friend or relative. • Decoration. Chips and circuit boards can be made into earrings and clipboards. • Many 60's units used a fair amount of gold. <p>Why</p> <ul style="list-style-type: none"> • Computers are a main contributor to electronic waste (e-waste). • They are made up of various components that are toxic to the environment. • With continued innovations in technology, there is an increasing opportunity to recycle computers, • Limiting the number that end up in landfills. • Computers tended to lose 80 percent of their market value in the first year after purchase. <p>Issues</p> <ul style="list-style-type: none"> • Problems with security of old data. • Cost involved in recycling • Repair often more expensive than replacing • Improvements / upgrades drives people to purchase new • Requirements of WEEE directive • SPECIFIC reference to materials that can or cannot be recovered 	[6]

Question		Answer	Mark
8	(a)	<p>(i) One mark for each valid point.</p> <p>Is a short range connection (1) up to 91 metres (1) designed to make its own connection between electronic devices (e.g. phone to phone) (1). It is unlicensed so anyone can set up a Bluetooth network. (1) Bluetooth is quite slow (up to 3 mb) (1) radio waves (1).</p>	[2]
		<p>(ii) One mark for each valid point.</p> <p>Transmits data as radio waves. (1) It is capable of very fast speed but is limited to about 45 metres. (1) It is used to connect to the internet via hot spots / access points / distribution box (1).</p>	[2]
	(b)	<p>One mark for each valid point.</p> <p>It is the way in which the company can make telephone calls using the internet (1) Providing both the person making the call and receiving the call have the same system on their computers (1) The telephone calls are cheap / free (1)</p> <p>VoIP uses a computer connected to the internet (1) to send voice messages over the internet (1) using a microphone and speakers or headphones (1) or special telephone (1)</p>	[3]

Question	Answer	Mark
	<p data-bbox="263 264 303 295">(c)</p> <p data-bbox="351 264 1197 324">One mark for each valid point. At least one mark must be for the purpose.</p> <p data-bbox="351 362 949 394">An internet cookie is a small chunk of data (1)</p> <p data-bbox="351 398 750 430">generated by a web server (1)</p> <p data-bbox="351 434 694 465">and stored in a text file (1)</p> <p data-bbox="351 470 845 501">in a computer's hard disk / system (1)</p> <p data-bbox="351 506 981 537">It helps monitor your path through a website. (1)</p> <p data-bbox="351 542 1212 600">It is particularly useful when you are purchasing something on the internet. (1)</p> <p data-bbox="351 604 1220 663">It can also be used to remember the personal information you type into a website (1)</p> <p data-bbox="351 667 1141 698">and to remember it for the next time you visit the website (1)</p> <p data-bbox="351 703 981 734">A cookie can also be used to target banners. (1)</p> <p data-bbox="351 739 1244 797">Cookies can be programmed to stay on a computer for any length of time. (1)</p>	<p data-bbox="1332 766 1380 797">[4]</p>

Question		Answer	Mark
9	(a)	<p>(i) One mark for each valid point</p> <ul style="list-style-type: none"> • How to switch on application • How to connect to the internet • How to browse/find pages • How to load the software • Limitations of mobile internet. 	[2]
		<p>(ii) One mark for each valid element as shown:</p> <p>One mark is issued for including their own stated elements Must include both elements in (a) (i) (1 mark)</p> <p>Additional marks for:</p> <ul style="list-style-type: none"> • Structure 1 mark for additional design elements that show the structure <ul style="list-style-type: none"> ○ Folds ○ Borders • Formatting 2 marks for additional design elements (one each) that show the formatting – may be found in the annotation <ul style="list-style-type: none"> ○ Relevant graphics ○ Use of more than one font size • Annotation 2 marks for relevant annotation which explain key points (one each) <ul style="list-style-type: none"> ○ Ease of use ○ Flow of instructions ○ Speed of download • Items to be included 2 marks for relevant additional items on leaflet (one each) – may be found in annotation <ul style="list-style-type: none"> ○ Company logo ○ Company name ○ Leaflet title/name ○ Company contact details eg address, email address, phone 	[8]

Question	Answer	Mark
(b)	<p>One mark for each valid point. Maximum of four marks if both vector and bitmap images are not explained.</p> <p>A bitmap graphic is composed of a grid of dots / pixels. (1) The colour of each dot / pixel is stored as a binary number (1) Used in digital photography or scanning images (1) Takes up a larger file size compared to vector (1)</p> <p>A vector graphic is a set of instructions for recreating a picture. (1) These instructions state the shape, size, position and colour of each object. (1) A vector graphic can be scaled without losing definition. (1) Used for posters and logos and animations and web files. (1) Smaller colour palette (1)</p>	[6]

Grade Thresholds

General Certificate of Secondary Education
ICT B (1095/1995)
January 2009 Examination Session

Unit Threshold Marks

	Unit	Maximum Mark	a*	a	b	c	d	e	f	g	u
2377F	Raw	40				37	32	27	23	19	0
	UMS	55				48	40	32	24	16	0
2377H	Raw	40	39	35	30	26	23	21			0
	UMS	80	72	64	56	48	40	32			0
2378	Raw	64	63	55	47	39	33	28	23	18	0
	UMS	120	108	96	84	72	60	48	36	24	0
2379	Raw	64	63	55	47	39	33	28	23	18	0
	UMS	120	108	96	84	72	60	48	36	24	0
2380F	Raw	55				40	35	31	27	23	0
	UMS	55				48	40	32	24	16	0
2380H	Raw	80	57	50	43	36	28	24			0
	UMS	80	72	64	56	48	40	32			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
1095	200	180	160	140	120	100	80	60	40	0

	Maximum Mark	A*	A	B	C	D	E	F	G	U
1995	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
1095	3.7	21.1	40.8	61.3	74.4	83.4	90.9	97.2	100	1218
1995	1.8	8.5	30.8	65.2	87.5	95.5	97.8	100	100	243

For a description of how UMS marks are calculated see;
http://www.ocr.org.uk/exam_system/understand_ums.html

Statistics are correct at the time of publication

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