OCR
RECOGNISING ACHIEVEMENT

GCSE

Information & Communication Technology B

General Certificate of Secondary Education **GCSE 1995**

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

Mark Scheme for the Components

January 2008

1995/1095/MS/R/08J

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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.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

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General Certificate of Secondary Education

Information and Communication Technology B (1995/1095)

MARK SCHEMES FOR THE COMPONENTS

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2380/01 Paper 3 (Foundation)

Question	Answers	Marks
1 (a)	One mark for 5	1
(b)	One mark for any single record. The whole record must be circled	1
(c)	One mark for 8	1
(d)	One mark from any of: • Customer number • Holiday code • Title • Surname • First name • Address Line 1 • Address Line 2 • Postcode	1
(e)	One mark for customer number	1
(f)	One mark for a unique field. Must say unique or indicate that it is an individual identifier of that particular record	1
(g)	One mark for customer number	1
(h)	One mark for 3 or 4	1

<table>
<tr><th>Question</th><th>Answers</th><th>Marks</th></tr>
<tr><td>2 (a)</td><td>One mark for each correct answer

<table>
<tr><th>Statement</th><th>True</th><th>False</th></tr>
<tr><td>When you send an email, it can be automatically saved on your system</td><td>X</td><td></td></tr>
<tr><td>When you take part in a chat a record is saved on your system</td><td>X</td><td>X</td></tr>
<tr><td>When you send an email both people have to be on-line at the same time</td><td></td><td>X</td></tr>
<tr><td>When you take part in an instant messaging discussion, all participants have to be on-line at the same time</td><td>X</td><td></td></tr>
<tr><td>A chat is a real time on-line conversation between many computer users</td><td>X</td><td></td></tr>
<tr><td>On-line discussion forums are designed to build on-line communities of people with similar interests</td><td>X</td><td></td></tr>
</table></td><td>6</td></tr>
<tr><td>2 (b)</td><td>One mark up to four for each correct statement:

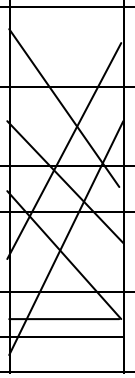
• Never give out personal details eg name, address, telephone number, age
• Don’t give out your email address/password especially if it contains part or all of your name
• Don’t tell anyone exact details about your routine. For example don't tell them which school you go to or the places you like to go and when you'll be there
• Never meet anyone that you know just from the Internet/chats /discussion forums/only meet in a public place/tell someone where you going
• Don't open any files or websites posted to you on chat – they could contain computer viruses or disturbing material
• Don’t use predatory/threatening/harassing/illegal/ bullying behaviour
• Remember your conversation could be recorded.
• Report any suspicious behaviour to someone
• Don’t believe everything you read

Internet refers to any Internet accessed forum.</td><td>4</td></tr>
</table>

Question	Answers	Marks
3	One mark will be awarded for any of the following layout points (Max 1 mark): • Full use of space provided OR • Clearly shows all three headings One mark any of the following design points (Max 1 mark): • Use of different fonts OR • Use of different font sizes OR • Changes in the font format (bold, underline etc) One mark any of the following design points (Max 1 mark): • Use of pictures or indication of a graphic Max two marks available for each of the following elements: **Adopt a good posture** Accept pictures showing this with notes or just words. Your upper body is most comfortable when: • Your back is supported/sit up straight • Your head is up • Your upper arms are relaxed Your hands and wrists are most comfortable when: • Your forearm is nearly at a right angle to your upper arm • Your wrist is in a straight line with your hand and forearm Adjust your seating position In order to improve your posture, adjust your chair so that: • Your lower back is supported • Your knees are level with your hips • Your feet are flat on the floor/footrest/foot stool • Your eye level is just above the top of the screen. Tilt your screen if necessary **Input/Output devices** Accept pictures showing this with notes or just words. The screen is directly in front of you, not at an angle Type using both hands	8
	If your arms are raised or your wrists are bent for long periods of keyboarding, tendon and nerve disorders can result It is worth learning to touch type because typing encourages the correct positioning of your hand and wrist so you will not overstrain your forefingers Remember that using the mouse a great deal can put a strain on your hand and wrist muscles Use ergonomic devices	

	RSI Accept pictures showing this with notes or just words. There are several factors that can lead to keyboard-related RSI These include: • Rapid, repetitive movements • An awkward working position • An excessive work-load • Tight deadlines • Inadequate rest breaks • Use ergonomic devices To prevent the symptoms of RSI, watch your posture, work at a steady rate and take regular breaks from the screen.	

<table>
<tr><th>Question</th><th>Answers</th><th>Marks</th></tr>
<tr><td>4</td><td>One mark for each correct

<table>
<tr><th>Task</th><th></th><th>Type of software</th></tr>
<tr><td>To view pages on the internet</td><td rowspan="8">  </td><td>Spreadsheet software</td></tr>
<tr><td>To produce an animated cartoon</td><td rowspan="2">Word processor</td></tr>
<tr><td>To modify an image</td><td>Web browser</td></tr>
<tr><td>To calculate cost of a holiday</td><td rowspan="2">Animation software</td></tr>
<tr><td>To produce poster</td><td rowspan="2">Graphics software</td></tr>
<tr><td>To type a letter</td></tr>
</table></td><td>6</td></tr>
<tr><td>5</td><td>One mark for each correct tick, deduct one mark for any over 5, no marks if all boxes are ticked.

<table>
<tr><td>You should check for spelling and grammatical errors</td><td>X</td></tr>
<tr><td>You should check for other contact details such as a telephone number</td><td>X</td></tr>
<tr><td>You should look for a lot of graphics</td><td></td></tr>
<tr><td>You should look for registered companies based in your own country</td><td>X</td></tr>
<tr><td>You should look for attractive websites</td><td></td></tr>
<tr><td>You should look for membership of associations eg ABTA</td><td>X</td></tr>
<tr><td>You should look for sites only available in search engines</td><td></td></tr>
<tr><td>You should pay by credit card as you are protected</td><td>X</td></tr>
</table></td><td>5</td></tr>
</table>

Question	Answers	Marks
6 (a)	One mark for each correct point up to 2 marks First mark for first page visitor will see or index page, second mark for expansion: • Links to other pages • Basic information eg any contact details • Special offers • Membership of associations • Search facilities	2
(b)	One mark for each valid point up to 3 marks, eg: • Holidays • Prices • Contact detail • Enquiry/registration • Booking form/how to book/order • About us • Tour details/hotels/facilities • Terms and conditions • Special offers	3
(c)	One mark for each correct answer – up to 4 marks, eg: • Exotic • Holidays • Holiday • Travel • Group • Environmental • Art • History • Activity • Cultural tours	4
(d)	Marks will be awarded for: • Suitable webpage layout (1 mark) • Different font sizes (1mark) • Heading (1 mark) • Contact details (1 mark) • Different font styles (1 mark) • Use of at least one hyperlink (1 mark) • Pictures/maps (1 mark) • Holiday details (1 mark) • Annotation (1 mark) • Clear labelling/annotation (1 mark)	9
	Total	**55**

2380/02 Paper 3 (Higher)

<table>
<tr><th>Question</th><th>Answers</th><th>Marks</th></tr>
<tr><td>1</td><td>One mark for each correct software, no marks for brand names.

<table><tr><th>Task</th><th>Type of software</th></tr><tr><td>To view pages on the Internet</td><td>Web browser or browser</td></tr><tr><td>To develop a website</td><td>Web design package/software or text editor</td></tr><tr><td>To modify an image</td><td>Graphics or graphics package/software</td></tr><tr><td>To calculate cost of a holiday</td><td>Spreadsheet</td></tr><tr><td>To produce poster</td><td>Graphics package/software or graphics DTP or WP</td></tr></table></td><td>5</td></tr>
<tr><td>2 (a)</td><td>One mark for customer number is needed because a unique field is required
One mark for stating that two names are the same / names can be the same</td><td>2</td></tr>
<tr><td>2 (b) (i)</td><td>One mark for title or holiday code</td><td>1</td></tr>
<tr><td>2 (b) (ii)</td><td>One mark for each point up to three for any of the following:
• Easy to add to database
• Less typing
• Fewer errors
• Limited number of options
• Some titles may not be in the list
• If there are too many things in a list it is hard to use
• Warns you
A maximum of one mark can be given where a candidate shows an understanding of postcode lookup to complete an address field.</td><td>3</td></tr>
<tr><td>2 (c)</td><td>One mark for each valid point up to four.
• Validation
• Mark for type of validation (e.g. range check)
• Set the field as a numeric only field
• Add a range statement/enter the minimum, maximum, to allow
• Quote values e.g. between …..</td><td>4</td></tr>
</table>

Question	Answers	Marks
2 (d)	One mark for each valid point and another for expansion, valid points include: • Fire walls / IP checkers (stop unauthorised users from getting to the files) • Encryption (allows you to open a file but not read it / need encryption key to read file) • Protect files using (usernames) and passwords restrict user access to the files by setting different access rights (passwords limit access levels) • Secure internet protocols • Digital certificates (only allows trusted sites)	**4**
2 (e)	One mark up to four for each principle eg: • Personal data shall be processed by exotic holidays for the purpose of holiday bookings only (fairly and lawfully) • Personal data shall be obtained only for one or more specified and lawful purposes, and shall not be further processed by exotic holidays other than for booking holidays • Personal data shall be adequate, relevant and not excessive in relation to a holiday booking • Personal data shall be accurate and kept up to date by the holiday company • Personal data processed for any purpose or purposes shall not be kept for longer than is needed for the holiday booking • Personal data shall be processed in accordance with the rights of data subjects under the Act e.g. not disclosed to others without consent. • Appropriate technical and organisational measures shall be taken against unauthorized or unlawful access to the data • Not transferring data outside countries without appropriate protection. • Customers can ask for copies of the information about them held by Exotic Holidays. • Exotic Holidays must have a data controller / responsible person	**4**

<table>
<tr><th>Question</th><th>Answers</th><th>Marks</th></tr>
<tr><td>3 (a)</td><td>One mark for each correct answer
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<tr><th>Statement</th><th>True</th><th>False</th></tr>
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• Never meet anyone that you know just from the Internet/chats /discussion forums/only meet in a public place/tell someone where you going
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Question	Answers	Marks
4 (cont.d)	Type using both hands If your arms are raised or your wrists are bent for long periods of keyboarding, tendon and nerve disorders can result It is worth learning to touch type because typing encourages the correct positioning of your hand and wrist so you will not overstrain your forefingers Remember that using the mouse a great deal can put a strain on your hand and wrist muscles Use ergonomic devices **RSI** Accept pictures showing this with notes or just words. There are several factors that can lead to keyboard-related RSI These include: • Rapid, repetitive movements • An awkward working position • An excessive work-load • Tight deadlines • Inadequate rest breaks • Use ergonomic devices To prevent the symptoms of RSI, watch your posture, work at a steady rate and take regular breaks from the screen.	

Question	Answers	Marks
5	Max 2 marks for each of the following headings: **Usability** • The site is easy to navigate (user-friendly) • Suitable / working links • There is a well-labelled contents area • The design elements (graphics, art, buttons, etc) work • There is consistency in the basic formats of each page • The pages appear clean, uncluttered • Speed of downloads **Bias** • Why was this site created? • Look for membership of recognised professional association • Is it a personal, commercial, government or organisation site • Check if only one side of an argument presented • Check if there is a hidden message • Check if trying to persuade you to buy something • Does it appear that any information is purposely omitted • Can you distinguish facts from opinion? • Credibility of site/source • Misuse of statistics **Content** • Does the site cover the topic sufficiently • Is the site accurate • Look for poor spelling/grammar • Can you understand what is being said/Is it written above or below your level of understanding • Does it offer something others sites do not • Are the links well-chosen and sufficient? • Can you tell when the date the information was created/last updated • Are there other contact details • Are they ABTA registered	6

Question	Answers	Marks
6	Example answers – one mark for each valid point up to four marks • Change the sky so a rainy day was sunny • Remove buildings or obstructions that would put a customer off • Change the perspective to make things look bigger • Make the picture more colourful • Make the picture brighter • Remove people from the beach • Add more attractive people to the picture • Removing the building site • Making people look happy • Misrepresentation gains a mark Mislead customers 1 mark	4
7	Any 6 from advantages/disadvantages but MUST be in a discussion. If there are only advantages or disadvantages only two marks can be awarded. • Spend less time commuting • Less office space needed • Environmentally friendly • Reduced travel costs • More time with family • Can plan when to do the work • Do not have to live near to office • Less cost than running an office • Can share ideas easier if in an office • Technical support better in an office • Flexible hours at home • Isolation from work colleagues at home • May feel vulnerable and unable to resist work demands • Need to have a work area/study within the home • May cost more – heating/lighting etc • Staff cannot be monitored easily • More complex security for out-working	6

Question	Answers	Marks
8	• One mark for identifying the importance of integration with database • One mark for identifying the importance of speed of web access • One mark for identifying security as an issue A maximum of four marks (one for each reference) for reasons for choice mentioning scores (don't have to say the numbers) from the chart and relating these to **Exotic Holidays** needs. Each expansion for database, speed and security in relation to Exotic Holidays can gain further marks. Two marks (one for each comparison) for comparing chosen system with another in the chart.	9
9	One mark for each valid point up to four, max three if only benefits or drawbacks. • ICT solutions are easily accessible • ICT solutions cover a wide range of languages • Software is easy to update • Helps with pronunciation • Cheaper than an interpreter • ICT is not as intelligent in language as a human • Not all words in dictionary • Some words have more than one meaning • Grammar issues • Software expensive or have to be on-line • Meaning not always the same • Sentence structure not the same • Minority languages might not be covered	4
10	One mark is given for having each of the following elements needed on a booking page: • Title for page • Use of space – form fills space within page borders • Entry boxes • Compulsory fields • Submit • More than one box for address • Security (password or padlock) • Adequate space for details • Instructions/help (displayed on screen or button) • Drop downs/validation	10
	Total	**80**

Grade Thresholds

General Certificate of Secondary Education
ICT Syllabus B (Specification Code 1095/1995)
January 2008 Assessment Series

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	38	34	30	27	23	21	-	-	0
	UMS	80	-	64	56	48	40	-	-	-	0
2378	Raw	64	62	53	44	36	30	25	20	15	0
	UMS	120	-	96	84	72	60	48	36	24	0
2379	Raw	64	62	53	44	36	30	25	20	15	0
	UMS	120	-	96	84	72	60	48	36	24	0
2380F	Raw	55	-	-	-	41	36	31	27	23	0
	UMS	55	-	-	-	48	40	32	24	16	0
2380H	Raw	80	55	48	41	34	26	22	-	-	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
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	2.1	18.0	42.6	68.3	81.4	89.3	95.7	99.8	100.0	839
1995	1.4	22.9	58.6	82.9	97.1	100.0	100.0	100.0	100.0	76

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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