



# **Information & Communication Technology A**

General Certificate of Secondary Education 1994/1094

# **Mark Scheme for the Components**

January 2008

1994/1094/MS/R/08J

OCR (Oxford, Cambridge and RSA Examinations) is a unitary awarding body, established by the University of Cambridge Local Examinations Syndicate and the RSA Examinations Board in January 1998. OCR provides a full range of GCSE, A level, GNVQ, Key Skills and other qualifications for schools and colleges in the United Kingdom, including those previously provided by MEG and OCEAC. It is also responsible for developing new syllabuses to meet national requirements and the needs of students and teachers.

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.

© OCR 2008

Any enquiries about publications should be addressed to:

OCR Publications PO Box 5050 Annersley NOTTINGHAM NG15 0DL

Telephone:0870 870 6622Facsimile:01223 552610E-mail:publications@ocr.org.uk



### CONTENTS

# General Certificate of Secondary Education Information and Communication Technology A (1994/1094)

### MARK SCHEMES FOR THE COMPONENTS

Component	Page
Mark Scheme 2357/01 Paper 1 (Foundation)	1
Mark Scheme 2357/02 Paper 1 (Higher)	10
Mark Scheme 2359/01 Paper 3 (Foundation)	18
Mark Scheme 2359/02 Paper 3 (Higher)	24
Grade Thresholds	30

# Mark Scheme 2357/01 Paper 1 (Foundation)

### **Question Answer**

Marks

### 1

Device	Input (✓)	Output (✓)
Red, amber and green lights		✓
Warning panel		✓
Internal warning speaker		<b>~</b>
Button	✓	

[3]

[2]

#### 2 CD-ROM

Hard disk

#### 3 Ticks as shown

ltem	Hardware (✓)	Software (✓)
CAD package		✓
Database		✓
Keyboard	~	
Mouse	~	
Virus checker		✓

[5]

Task	Type of computer
Creating complex computer images in an office	Desktop computer
Instant access to notes and reminders while on the move	PDA
Editing large video files	Desktop computer
Word processing documents when travelling on a train	Laptop computer

[4]

	True (√)	False (√)
Sensors are output devices.		✓
Emails always carry viruses.		~
Information found on the Internet is always accurate.		~
Computers can be used to record data collected in a traffic survey.	✓	
Computer assisted learning (CAL) allows pupils to work at their own pace.	✓	
Computer Aided Design (CAD) can be used to plan a new kitchen.	✓	

[6]

(a)	One from:				
	<ul> <li>Copy/cut and paste</li> <li>Insert (from file)/import</li> </ul>				
	Drag (from graphics package)	[1]			
(b)	One from:				
	• Crop				
	Resize/enlarge	[1]			
(c)	Right aligned/justified	[1]			
(d)	One from:				
	Cannot be used without permission of the owner				
	Copyright	[1]			
(e)	Two from:				
	No paper in printer				
	<ul><li>No/low ink/toner</li><li>Paper jam</li></ul>				
	<ul> <li>Printer off-line/broken/disconnected/unplugged</li> </ul>				
	<ul> <li>Chose incorrect printer/printer driver/printer not installed/software ma</li> <li>Print allocation exceeded</li> </ul>	alfunction			
	<ul> <li>Print allocation exceeded</li> <li>No access privileges for printer</li> </ul>				
	Insufficient memory in printer	[2]			
(f)	A copy of the file	[1]			
()					
(g)	One from:				
	<ul><li>Original lost/deleted</li><li>Original corrupted</li></ul>	[1]			
(h)	Two from:				
	<ul> <li>Take backups regularly/eg, backup protocol eg, grandfather/father/s</li> <li>Store on removable medium/suitable medium/remote eg, web storage example</li> </ul>				
	<ul> <li>Keep away from original files/secure storage</li> </ul>				
	Check that the backup is usable	[2]			

#### 2357/01

#### 7 Three from:

- Change the amount of brightness
- Type of scan black and white/photograph/number of colours/greyscale
- Choose/change resolution
- Choose file type
- Select image area/crop image/erase image sections
- Rotation/flip/mirrored
- Zoom/enlargement/shrinking

Must be related to scanning software and **not** generic application features eg print

copy/paste/save/load.

[3]

2357/01		Mark Scheme January	2008
8	(a)	To identify user to the system/to allow access to storage area/profile	[1]
	(b)	For security/prevent unauthorised access	[1]
	(c)	Two from:	
		<ul> <li>Mixture of letters, numbers, other characters</li> <li>Not personal to the user</li> <li>Must be able to remember it</li> <li>Keep it secret/don't tell anyone else</li> <li>Use a mixture of upper and lowercase</li> <li>Learn it/do not write it down</li> <li>Do not use a real/dictionary word</li> <li>Use a suitable length/number of characters</li> </ul>	[2]
	(d)	Two from:	
		<ul> <li>Spread of viruses</li> <li>Security issues eg hacking</li> <li>Plagiarism issues</li> <li>Computers may run slower</li> <li>Reference to hardware/software failure, eg, server failure</li> </ul>	
	(e)	Four from:	
		<ul> <li>Inappropriate materials made inaccessible eg pornography/drugs/weapons</li> <li>To safeguard students from eg inappropriate contacts/cyber bullying</li> <li>To prevent copying/downloading of work</li> <li>To avoid boing suod</li> </ul>	1

- To avoid being sued •
- (Impulse) buying
- Gambling
- Chat rooms (made inaccessible)
- Prevent download of viruses
- Prevent distraction of students, eg, playing games •
- Prevent download of large files, eg, videos/block some of the web services which are memory intensive to stop slowing of network • [4]
- No need to convert data as already digital/data stays in digital domain [1] (f)

9 (a) Record

Field Searching

File

(b)

[4]



[3]

10	(a)	One from:			
		<ul> <li>CD-R(W)</li> <li>DVD-/+R</li> <li>DVD RW(W)/RAM</li> <li>Flash memory/memory stick/USB pen</li> <li>Appropriate portable device eg MP3 player</li> <li>External/removable hard drive</li> </ul>			
		Do not accept: floppy disk, CD-ROM, CD, DVD	[1]		
	(b)	Two from:			
		<ul> <li>Portable</li> <li>Small</li> <li>Re-usable</li> <li>Large capacity</li> <li>Can be used on any computer</li> </ul>	[2]		
11	Two	from:			
	• • •	The use of communication links/internet Between people who are geographically separated More than two persons involved Can see/hear each other (video conference)	[2]		

#### 12 Two descriptions

- **Formulas** •
- For calculations •
- In-built functions eg average, countif, sum/goal seek, etc •
- For complex calculations/manipulate data •
- Other features eg macros, sort, conditional formatting •
- With appropriate description of use

#### Graphs •

For display of data/trends/analysis •

#### Automatic recalculation •

- For update/up to date results •
- Is faster than manual •
- Related data •
- Use of absolute referencing •
- Use of same information in different places •

#### • Constant variable

- Refers to same variable that does not change
- Use of relative referencing
- To change variables

[4]

Total marks: [60]

# Mark Scheme 2357/02 Paper 1 (Higher)

Marks

### 1 Three from:

- Change the amount of brightness
- Type of scan black and white/photograph/number of colours/greyscale
- Choose/change resolution
- Choose file type
- Select image area/crop image/erase image sections
- Rotation/flip/mirrored
- Zoom/enlargement/shrinking

	t be related to scanning software and <b>not</b> generic application features e //paste/save/load.	eg print [3]
(a)	To identify user to the system/to allow access to storage area/profile	[1]
(b)	For security/prevent unauthorised access	[1]
(c)	<ul> <li>Two from:</li> <li>Mixture of letters, numbers, other characters</li> <li>Not personal to the user</li> <li>Must be able to remember it</li> <li>Keep it secret/don't tell anyone else</li> <li>Use a mixture of upper and lowercase</li> <li>Learn it/do not write it down</li> <li>Do not use a real/dictionary word</li> <li>Use a suitable length/number of characters</li> </ul>	[2]
(d)	<ul> <li>Two from:</li> <li>Spread of viruses</li> <li>Security issues eg hacking</li> <li>Plagiarism issues</li> <li>Computers may run slower</li> <li>Reference to hardware/software failure, eg, server failure</li> </ul>	[2]

- (e) Four from:
  - Inappropriate materials made inaccessible eg pornography/drugs/weapons
  - To safeguard students from eg inappropriate contacts/cyber bullying
  - To prevent copying/downloading of work
  - To avoid being sued
  - (Impulse) buying
  - Gambling
  - Chat rooms (made inaccessible)
  - Prevent download of viruses
  - Prevent distraction of students, eg, playing games
  - Prevent download of large files, eg, videos/block some of the web services which are memory intensive to stop slowing of network [4]
- (f) No need to convert data as already digital/data stays in digital domain [1]

3 (a) Record Field Searching File

[4]

## (b)



#### 4 (a) One from:

- CD-R(W)
- DVD-/+R
- DVD RW(W)/RAM
- Flash memory/memory stick/USB pen
- Appropriate portable device eg MP3 player
- External/removable hard drive

Do not accept: floppy disk, CD-ROM, CD, DVD	[1]
---	-----

#### (b) Two from:

- Portable
- Small
- Re-usable
- Large capacity
- Can be used on any computer

[2]

[3]

#### 5 Two from:

- The use of communication links/internet
- Between people who are geographically separated
- More than two persons involved
- Can see/hear each other (video conference)

[2]

#### 6 Two descriptions

- Formulas
- For calculations
- In-built functions eg average, countif, sum/goal seek, etc
- For complex calculations/manipulate data
- Other features eg macros, sort, conditional formatting
- With appropriate description of use
- Graphs
- For display of data/trends/analysis

#### Automatic recalculation

- For update/up to date results
- Is faster than manual
- Related data

#### • Use of absolute referencing

• Use of same information in different places

#### • Constant variable

• Refers to same variable that does not change

#### • Use of relative referencing

• To change variables

[4]

#### 7 Points and expansions from:

- Insert/import/add photographs/videos
- ...for display
- Add captions to the photographs
- ...to explain/add notes
- Use dissolve techniques/slide transitions
- ...to draw attention on slide stage
- Use animation
- ...to illustrate/add information
- Use moving text
- ...to illustrate/add information
- Use bullet points
- ...to illustrate/add information
- Use different font sizes
- ...for titles etc
- Use different fonts
- ...to attract attention/highlight text
- Use coloured backgrounds
- ...to make images stand out
- Use of sound
- ...to keep attention/hear speech
- Use of hyperlinks
- ...to external information

#### Question to be marked as a graded response.

#### Marks to be awarded as follows:

	1 point	2 or more points	3 or more points
No	1	2	3
expansions			
1 expansion	2	3	4
2 or more	3	4	5
expansions			
3 or more	4	5	6
expansions			

#### 8 Six from:

Main/internal memory:

- holds the data currently being used
- holds the instructions currently being used
- same access time for all locations
- directly addressable
- (RAM) can be volatile/lose contents on power off
- (ROM) can be non-volatile/contents not lost on power off
- is always semi-conductor (CMOS, MOS etc)/chip based

Secondary/backing store:

- stores more data than main memory
- stores data not in current use
- slower access times than main memory/main memory has faster access times than secondary
- non-volatile/does not lose content on power off
- can be magnetic
- can be optical
- can be flash (semi-conductor) memory

[6]

#### 9 Six from:

#### Advantages:

- can work in own time/at own pace
- can repeat tests/material/work
- improves student performance (in topic)
- improves motivation/interest in the work
- individual tuition
- uses multimedia
- students get personalised feedback
- students maintain concentration for longer periods of time
- teachers can spend more time with individual students
- reports/analysis of student work is more detailed

#### Disadvantages:

- can be expensive
- students may not pay attention to teacher when asked
- student and teacher may not communicate
- reduce peer discussion and group work
- computers are not available for other uses
- may not like ICT

Max 4 if ALL advantages or ALL disadvantages given.

[6]

#### 10 Six from:

- <u>temperature</u> sensor
- sends data to computer
- continuous (sending data)
- sensor connected (to computer/interface box)
- interface box/ADC used
- to protect computer circuitry
- convert analogue to digital data
- data logging software used
- data read at intervals
- data stored
- use of spreadsheet/database
- analysis of data
- graphs/tables produced
- export of data for presentation/report
- use of monitor/VDU to display results
- report printed
- use plotter

11 Six from:

- reduced clerical staff
- reduced manual workforce
- unemployment/redundancies
- one example eg printing industry, banking services, car manufacturing
- retraining
- workers moved to different jobs
- more jobs in computer (manufacturing) industries
- more jobs in IT service industries
- working from home self-employed
- responsiveness/flexibility

[6]

[6]

Total marks: [60]

# Mark Scheme 2359/01 Paper 3 (Foundation)

Q	Mark Scheme	•					Marks
1	<ul> <li>(a) • questionnaires</li> <li>interviews</li> <li>(b) • direct changeover</li> <li>parallel running</li> </ul>					2 2	
2		DTP (√)	Databa (√)	ase	Spreadsheet (✓)	Presentation (✓)	
	Making interesting slideshows Making a computer model				√	✓	
	Creating a leaflet mixing text and pictures	✓					
	Carrying out complex searches on data		~				4
3				Mic	croprocessor (✓)	Mainframe (✓)	
	Used in a mot making a call.	oile phon	e for		✓		
	Used in a ban processing ac					✓	
	Used in a desl at home.				✓		
	Used in a com supports thous at once.					√	4

Q	Mark	Scheme						Marks
4			OMR (✓)	OCR (✓)	MICR (✓)	Bar code reader (✓)	Touch screen (✓)	
	details chequ Import page o word p Choos at a fa restau Readin of a bo checke Readin codes packe	ing a printed of text into a processor sing an option st food rant ng the details pok at a library out desk ng product from a cereal t		✓	•	<ul> <li>✓</li> <li>✓</li> </ul>	<ul> <li>(♥)</li> </ul>	5
5	Mainte Desigi Develo	nentation enance	-	E	5 4 (6) 2 (3) 1			4
6	(a)	Star						1
	(b)	Bus/line						1
	(c)	<ul> <li>sharing</li> <li>sharing</li> <li>emailing</li> <li>access</li> </ul>	resource application files/data sending work from ork can l	ons/soft a J work to n any w	o teache orkstatic	rs/home on		2
	(d)	LAN/local area	a (netwo	rk)				1
	(e)	One from: • modem • router • hardwar	e firewal	I				1
	(f)	<ul> <li>virus pro</li> <li>hacking,</li> <li>chat roo</li> <li>Internet hand</li> </ul>	oblems /security m issues	issues s can distr		ate materials ents from ta		2

Q	Mark \$	Scheme			Marks
	(g)	Disadvantage One from: • slow • limited range	o install disconnect/can connec ocked by walls/obstruct		
			/security problems		2
7	•   • ( •   • .	rom: collects data/together ov arge volume of data inv data can be validated/ve many records to be upda at the same time used off peak/overnight no need for instant outpu	olved erified before processin ated		2
8	(a)	Field	Data type		
		Title	text/character/alpha		
		Rating	text/character/alpha		
		Price paid	real/currency	NOT number	
		Medium (Tape/DVD Publication date	Boolean date/integer/number /character/alphanum		5
	(b)	To ensure that the dat	a entered is reasonable	Э	1
	(c)	One from: • number of charact • presence check • existence check • lookup values • invalid character of • can be only one of just two possibilitie	check of two values/ Drop-dov	vn menu with	1

Q	Mark	<pre>c Scheme</pre>	Marks	ĺ
	(d)	<ul> <li>Two from:</li> <li>Visual check</li> <li>Comparing on screen/stroke printed version of database</li> <li>with the original data sheet</li> </ul>	2	
9	(a)	One from: For example; medical diagnosis car engine fault diagnosis geological/mineral surveying	1	
	(b)	<ul> <li>Two from:</li> <li>access to expert knowledge base</li> <li>access to collected wisdom of experts</li> <li>can work at own pace</li> <li>can play chess without another person</li> <li>can supply alternative solutions</li> </ul>	2	

Q	Mark Scheme	Marks
10	Maximum 4 marks less than three 3 topics in response.	
	<ul> <li>automated production lines         <ul> <li>less workers</li> <li>more standard products</li> <li>production lines can run continuously</li> </ul> </li> </ul>	
	<ul> <li>automated stock control         <ul> <li>stock kept at correct/desired levels</li> <li>automatic re-ordering</li> </ul> </li> </ul>	
	<ul> <li>Internet/on-line trading         <ul> <li>reduced need for premises</li> <li>reduced need to store stock</li> <li>global markets</li> </ul> </li> </ul>	
	<ul> <li>change in work force deployment         <ul> <li>less manual/low-skill workers</li> <li>more ICT workers</li> <li>more skilled workers</li> </ul> </li> </ul>	
	<ul> <li>tele-working         <ul> <li>flexible hours</li> <li>job satisfaction</li> <li>employees can work from home/business can be run from home</li> </ul> </li> </ul>	
	<ul> <li>use of email         <ul> <li>to send messages/documents to multiple recipients</li> <li>attachments/to attach documents</li> <li>can be quicker than traditional means e.g. couriers,</li> </ul> </li> <li>post</li> </ul>	
	<ul> <li>video-conferencing         <ul> <li>reduced travel costs/costs of delegate accommodation/conference rooms</li> <li>no time wasted on travelling</li> </ul> </li> </ul>	
	<ul> <li>can set up conference at short notice</li> <li>training         <ul> <li>on-line</li> <li>oremote</li> <li>CAL</li> </ul> </li> </ul>	
	<ul> <li>advertising         <ul> <li>use of (Internet) for email</li> <li>use of web pages/sites</li> </ul> </li> </ul>	
	<ul> <li>globalisation         <ul> <li>easy access to information around the world</li> <li>electronic money transfer             <ul> <li>to supplier(s)</li></ul></li></ul></li></ul>	
	oto employees/employees bank accounts	6

Q	Mar	k Scheme	Marks
11		ee from: restricted file permissions user name <u>and</u> password files/folders can be protected by password(s) use of firewall access rights encrypting the data by making files hidden to other users by reducing access times/unavailable out of hours	3
12	(a)	<ul> <li>Two from:</li> <li>use of ICT</li> <li>to acquire goods/money</li> <li>not entitled to</li> </ul>	2
	(b)	<ul> <li>Four from:</li> <li>use secure site/sites with "padlock" icon</li> <li>data is encrypted</li> <li>use established sites/avoid less well-known sites</li> <li>more likely trader is honest</li> <li>do not respond to email requests for details</li> <li>ensure only trade with sites you choose yourself</li> <li>do not respond to advertising emails/spam</li> <li>without carrying out further checks to ensure</li> <li>company is genuine</li> <li>check credit card statements</li> <li>ensure that no rogue transactions appear</li> <li>shred/destroy documents/bank statements/credit card statements/utility bills</li> <li>before disposal/to avoid use of these to discover personal details</li> </ul>	4
		Total: 60 marks	

# Mark Scheme 2359/02 Paper 3 (Higher)

Q	Mark Scheme		Marks
1	Advantage One from: • mobility • no wires/easier to • easy to connect/o	o install disconnect/can connect anywhere	
	<b>Q 1</b>	ocked by walls/obstructions /security problems	2
2	processing <ul> <li>large volume of c</li> </ul>	ated/verified before processing be updated time ernight	2
3	(a)		
	Field	Data type	
	Title	text/character/alphanumeric	
	Rating	text/character/alphanumeric	
	Price paid	real/currency NOT number	
	Medium (Tape/DVD	Boolean	
	Publication date	date/integer/number/text /character/alphanumeric	5
	(b) To ensure that	the data entered is reasonable	1
	<ul> <li>presence check</li> <li>existence check</li> <li>lookup values</li> <li>invalid characte</li> </ul>	< er check of two values/ Drop-down menu with	1

### Q Mark Scheme

Q	Mar	k Scheme	Marks
	(d)	Two from:	
		<ul> <li>Visual check</li> </ul>	
		<ul> <li>Comparing on screen/stroke printed version of database</li> </ul>	
		with the original data sheet	2
4	(a)	One from:	
	. ,	For example	
		medical diagnosis	
		<ul> <li>car engine fault diagnosis</li> </ul>	
		<ul> <li>geological/mineral surveying</li> </ul>	1
	(b)	Two from:	
		<ul> <li>access to expert knowledge base</li> </ul>	
		<ul> <li>access to collected wisdom of experts</li> </ul>	
		<ul> <li>can work at own pace</li> </ul>	
		<ul> <li>can play chess without another person</li> </ul>	
		<ul> <li>can supply alternative solutions</li> </ul>	2

Q	Mark Scheme	Marks
5	Maximum 4 marks less than three 3 topics in response.	
	<ul> <li>automated production lines         <ul> <li>less workers</li> <li>more standard products</li> <li>production lines can run continuously</li> </ul> </li> <li>automated stock control         <ul> <li>stock kept at correct/desired levels</li> </ul> </li> </ul>	
	<ul> <li>automatic re-ordering</li> <li>Internet/on-line trading         <ul> <li>reduced need for premises</li> <li>reduced need to store stock</li> <li>global markets</li> </ul> </li> </ul>	
	<ul> <li>change in work force deployment         <ul> <li>less manual/low-skill workers</li> <li>more ICT workers</li> <li>more skilled workers</li> </ul> </li> </ul>	
	<ul> <li>tele-working         <ul> <li>flexible hours</li> <li>job satisfaction</li> <li>employees can work from home/business can be run from home</li> </ul> </li> </ul>	
	<ul> <li>use of email         <ul> <li>to send messages/documents to multiple recipients</li> <li>attachments/to attach documents</li> <li>can be quicker than traditional means e.g. couriers,</li> </ul> </li> </ul>	
	<ul> <li>video-conferencing         <ul> <li>reduced travel costs/costs of delegate accommodation/conference rooms</li> <li>no time wasted on travelling</li> <li>can set up conference at short notice</li> </ul> </li> </ul>	
	<ul> <li>training         <ul> <li>on-line</li> <li>oremote</li> <li>OCAL</li> </ul> </li> </ul>	
	<ul> <li>advertising         <ul> <li>use of (Internet) for email</li> <li>use of web pages/sites</li> </ul> </li> <li>globalisation</li> </ul>	
	<ul> <li>easy access to information around the world</li> <li>electronic money transfer</li> <li>to supplier(s)</li> </ul>	
	<ul> <li>to employees/employees bank accounts</li> </ul>	6

Q	Mark Scheme	Marks
6	<ul> <li>Three from:</li> <li>restricted file permissions</li> <li>user name <u>and</u> password</li> <li>files/folders can be protected by password(s)</li> <li>use of firewall</li> <li>access rights</li> <li>encrypting the data</li> <li>by making files hidden to other users</li> <li>by reducing access times/unavailable out of hours</li> </ul>	
	Do not accept: protection software, 'read only' access rights	3
7	<ul> <li>(a) Two from:</li> <li>use of ICT</li> <li>to acquire goods/money</li> <li>not entitled to</li> </ul>	2
	<ul> <li>(b) Four from:</li> <li>use secure site/sites with "padlock" icon</li> <li>data is encrypted</li> <li>use established sites/avoid less well-known sites</li> <li>more likely trader is honest</li> <li>do not respond to email requests for details</li> <li>ensure only trade with sites you choose yourself</li> <li>do not respond to advertising emails/spam</li> <li>without carrying out further checks to ensure</li> <li>company is genuine</li> <li>check credit card statements</li> <li>ensure that no rogue transactions appear</li> <li>shred/destroy documents/bank statements/credit card statements/utility bills</li> <li>before disposal/to avoid use of these to discover personal details</li> </ul>	4
8	<ul> <li>(i) Two from:</li> <li>name/title (of book)</li> <li>topic (of book)</li> <li>author (of book)</li> <li>ISBN number (of book)</li> <li>publisher (of book)</li> </ul>	2
	<ul> <li>(ii) Two from:         <ul> <li>search for/look up</li> <li>name/title (of book)</li> <li>author</li> <li>topic</li> <li>ISBN</li> <li>publisher</li> </ul> </li> </ul>	2

Q	Mark Scheme		Marks
	(iii) Two from:		
	(iii) Two from: • (list of) name(s)/title(s)		
	• (list of) name(s)/me(s) • (list of) authors		
	(list of) ISBN numbers     in (put of stack status		
	• in/out of stock status		
	• (list of) publisher		•
	• (list of) price		2
9	Four from:		
	document printed from company	v system	
	• (part of) document used to colle	-	
	document returned to company		
	user data is input to system		
	data processed		
	feedback		4
10	(a) Data on the edge of acceptabil	ity.	1
	(b) Data outside the acceptable ra	nge	1
		nge.	•
	(c) Data within the acceptable ran	ae.	1
		0	
11	Eight from:		
	Maximum 6 marks if only all CLI or GL		
	One mark available for reasoned conc	lusion up to the max 8	
	marks.		
	Command line	GUI	_
	user has to know commands	commands intuitive	_
	commands usually have to be in full	shortcuts possible	
	user has to learn commands/more	less learning/training	
	training needed	by user required	
	can be daunting/more difficult to	GUI more user	1
	•		
	use/make more mistakes	friendly	-
	•		-
	use/make more mistakes no graphics	friendly graphics used to	-
	use/make more mistakes	friendly graphics used to represent tasks	-
	use/make more mistakes no graphics no menus	friendly graphics used to represent tasks menus used for	
	use/make more mistakes no graphics	friendly graphics used to represent tasks menus used for choices	-
	use/make more mistakes no graphics no menus	friendly graphics used to represent tasks menus used for choices choices restricted to	-
	use/make more mistakes no graphics no menus user has complete control	friendlygraphics used to represent tasksmenus used for choiceschoices restricted to those on menu	
	use/make more mistakes no graphics no menus user has complete control commands have to be	friendlygraphics used to represent tasksmenus used for choiceschoices restricted to those on menuspelling/typing errors	
	use/make more mistakes no graphics no menus user has complete control commands have to be	friendlygraphics used to represent tasksmenus used for choiceschoices restricted to those on menuspelling/typing errors avoided	-
	use/make more mistakes no graphics no menus user has complete control commands have to be accurate/correct	friendlygraphics used to represent tasksmenus used for choiceschoices restricted to those on menuspelling/typing errors avoidedpointing device used	8

## Q Mark Scheme

Marks	

Eight from:			
Method	Advantages	Disadvantages	
	thorough understanding of	takes a long time	
	company processes	may not see all	
		relevant	
Collecting		documents/may miss some	
documents		documents	
		doodiniento	
		old documents may	
		be irrelevant/of	
		limited use	
	obtain clearer/more	workers may resent	
	accurate overview of tasks	being watched	
		workers may not	
Observation		behave normally	
		while being watched	
	efficient en f	man-power intensive	
	efficient way of	may not be returned/some	
	collecting data/send to more than one	questions may be	
	person	omitted	
	simultaneously.		
		may omit to cover	
	can collect a lot of	issues	
	data in a short time		
Questionnaires	focuses people on	may not be	
	issues	completed	
	data sara ba	accurately	
	data can be processed quickly		
	respondents can be		
	more honest/answer		
	without fear of		
	reprisal	Vonutimo concumina	
	can follow up on answers to gain	very time-consuming	
	more in-depth	may be difficult to	
	information	keep interviewee	
		focussed on the	
Interviews	unexpected issues	questions/issues	
	raised		
	oon goin alcorer	may be difficult to	
	can gain clearer insight/understanding	arrange	
	of responses	responses may not	
		be honest	8
One is available	e mark for reasoned conclu	ision up max 8 marks.	

# **Grade Thresholds**

General Certificate of Secondary Education ICT A (Specification Code 1094/1994) January 2008 Examination Series

#### Unit Threshold Marks

Unit		Maximum Mark	<b>A</b> *	Α	В	С	D	Е	F	G	U
2357/01	Raw	60				47	43	39	36	33	0
	UMS	55				48	40	32	24	16	0
2357/02	Raw	60	42	38	34	30	25	22			
	UMS	80	72	64	56	48	40	32			
2358	Raw	60	58	52	43	35	29	23	17	11	0
	UMS	120	108	96	84	72	60	48	36	24	0
2359/01	Raw	60				32	27	23	19	15	0
	UMS	55				48	40	32	24	16	0
2359/02	Raw	60	32	27	22	17	12	9			
	UMS	80	72	64	56	48	40	32			
2360	Raw	60	53	44	35	27	23	20	17	14	0
	UMS	120	108	96	84	72	60	48	36	24	0

#### **Specification Aggregation Results**

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

	Maximum Mark	<b>A</b> *	Α	В	С	D	Е	F	G	U
1094	200	180	160	140	120	100	80	60	40	0
	Maximum				_					

	Maximum Mark	<b>A</b> *	Α	В	С	D	Е	F	G	U
1994	400	360	320	280	240	200	160	120	80	0

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

	<b>A</b> *	Α	В	С	D	E	F	G	U	Total No. of Cands
1094	1.5	12.3	32.9	60.6	80.3	88.8	92.6	96.8	100	758
1994	2.2	30.6	53.0	74.6	94.8	97.0	98.5	100	100	149

#### 907 candidates were entered for aggregation this series

For a description of how UMS marks are calculated see: <u>http://www.ocr.org.uk/learners/ums\_results.html</u>

Statistics are correct at the time of publication.

OCR (Oxford Cambridge and RSA Examinations) 1 Hills Road Cambridge CB1 2EU

**OCR Customer Contact Centre** 

#### 14 – 19 Qualifications (General)

Telephone: 01223 553998 Facsimile: 01223 552627 Email: general.qualifications@ocr.org.uk

#### www.ocr.org.uk

For staff training purposes and as part of our quality assurance programme your call may be recorded or monitored



Head office

Registered in England

OCR is an exempt Charity

Telephone: 01223 552552 Facsimile: 01223 552553

Oxford Cambridge and RSA Examinations is a Company Limited by Guarantee

**Registered Company Number: 3484466** 

Registered Office; 1 Hills Road, Cambridge, CB1 2EU

OCR (Oxford Cambridge and RSA Examinations)