

Mark Schemes for the Units

June 2006

1494/MS/R/06

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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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Any enquiries about publications should be addressed to:

OCR Publications
PO Box 5050
Annersley
NOTTINGHAM
NG15 0DL

Telephone: 0870 870 6622
Facsimile: 0870 870 6621
E-mail: publications@ocr.org.uk

CONTENTS

Applied GCSE ICT (1494)

MARK SCHEME ON THE UNITS

Unit	Content	Page
4872	ICT Knowledge and Understanding	1
*	Grade Thresholds	10

Mark Scheme 4872
June 2006

Max mark 100. 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.

Question		Marks	
1 (a)	1 mark each correct backing storage device, 1 mark each <i>different</i> reason <ul style="list-style-type: none"> • DVD rewriter • To create backup copies of her leaflets/to save leaflets for transfer to another computer/to archive leaflets/work • Hard disk drive • To save pictures/leaflets Reasons may refer to 'work' in general or other relevant work	4	
(b)	1 mark each correct output device, 1 mark each <i>different</i> reason <ul style="list-style-type: none"> • Monitor • To see the leaflets (as they are being created) • Printer • To see what the leaflets look like (on paper) • To print out the leaflets (need more than 'to print out') Reasons may refer to 'work' in general or other relevant work	4	
(c)	1 mark each correct input device, 1 mark each <i>different</i> reason <ul style="list-style-type: none"> • Keyboard • To enter/type text • Mouse • To load programs/choose options/icons/move/select items on the leaflets/point and click • Scanner • To scan pictures/photographs (into the computer/onto the leaflets) /put photos onto the computer Reasons may refer to 'work' in general or other relevant work	6	
(d)	1 mark for device, up to 2 marks for explanation, from one of:	3	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; vertical-align: top;"> Digital camera <ul style="list-style-type: none"> • Allows her to take photographs • That can be input directly to her computer/leaflets • Quicker to transfer photographs than a scanner • Don't need to process photographs before inputting </td> <td style="width: 33%; vertical-align: top;"> Graphics tablet <ul style="list-style-type: none"> • Allows drawings to be made • More accurately/easily than with a mouse </td> <td style="width: 33%; vertical-align: top;"> Microphone <ul style="list-style-type: none"> • To enter text • Without having to type • Prevents RSI </td> </tr> </table>		Digital camera <ul style="list-style-type: none"> • Allows her to take photographs • That can be input directly to her computer/leaflets • Quicker to transfer photographs than a scanner • Don't need to process photographs before inputting
Digital camera <ul style="list-style-type: none"> • Allows her to take photographs • That can be input directly to her computer/leaflets • Quicker to transfer photographs than a scanner • Don't need to process photographs before inputting 	Graphics tablet <ul style="list-style-type: none"> • Allows drawings to be made • More accurately/easily than with a mouse 	Microphone <ul style="list-style-type: none"> • To enter text • Without having to type • Prevents RSI 	
(e)	Four from: <ul style="list-style-type: none"> • More (backing) storage/wasn't enough backing storage • Allows Kiran to save more pictures/leaflets/couldn't store enough • More (main/internal) memory/wasn't enough main memory • Allows Kiran to work with larger files/have more files open at once • Will enable the computer to work more quickly/computer was too slow • Because she uses large (DTP/picture) files 	4	

2 (a)	<ul style="list-style-type: none"> Not connected to a network/other computers 	1
(b)	<ul style="list-style-type: none"> DTP/Desktop publisher/Desktop publishing/Publications. <p>No other answer accepted, but allow for spelling mistakes</p>	1
(c) (i)	<p>Two from</p> <ul style="list-style-type: none"> A ready made structure/starting page/blank page You get different templates for different purposes Examples of things that might be set up, e.g. margins, styles, borders 	2
(ii)	<p>Advantage. 1 from:</p> <ul style="list-style-type: none"> Quicker/easier because lots of things already set up/example of something set up or quicker/easier to produce standard documents/leaflets OR saves time Doesn't have to design leaflet herself Fewer errors/example of something already on the template, e.g. company details Aids corporate image/consistency <p>Disadvantage. 1 from:</p> <ul style="list-style-type: none"> Design won't be original/people might recognise design There may not be a template that gives the most suitable design An individually designed leaflet might be more readily noticed <p>Nothing to do with Joanne not working hard enough or demonstrating skills Need more than just 'templates are boring designs'</p>	2
(d) (i)	<p>Two from</p> <ul style="list-style-type: none"> Any form of human error, e.g. saving over the top of an existing file, accidental deletion Someone else deliberately corrupting/deleting file Hardware failure/damage, e.g. hard disk failure or a description of the computer not starting up. <i>NOT 'computer crashing' or 'power cut'</i> Virus Computer stolen 	2
(ii)	<p>One from</p> <ul style="list-style-type: none"> Have a backup/copy Use virus checking software/keep antivirus software up to date Lock keyboard Lock office Password protect files/computer 	1
(e)	<p>Four points e.g.:</p> <ul style="list-style-type: none"> Take regular breaks Use tilted/ergonomic keyboard Use voice input/speech recognition Use wrist rest Have screen at eye level Don't sit too close to screen Have a screen filter/TFT/LCD screen Avoid glare/have blinds Use adjustable (NOT comfortable) chair/chair/table at right height Use footrest Have regular eye checks (<i>NOT wear glasses</i>) Use chair with back/arm rest Sensible comment about posture Adequate ventilation 	4

3	One mark each correct line. No marks if both columns ticked			6
	Statement	True	False	
	Goods are made more accurately	✓		
	All goods made are exactly the same		✓	
	Factories are expensive to set up	✓		
	Factories are expensive to run		✓	
	All the factory workers have lost their jobs		✓	
	Goods are produced more quickly	✓		
4 (a)	Up to 2 advantages e.g.: <ul style="list-style-type: none"> • People will look/search for window companies on the Internet • Can include much more information/photographs on a web page • Allows customers to easily email for more information/ask for quotes • order on-line • Can include sound/video • Makes the company look good/professional/trustworthy • Don't have to deliver individual leaflets • One website covers the whole country. (need something more than just 'more people use the Internet') • Easier to keep up to date • Customers can find information • Guest book 1 disadvantage from: <ul style="list-style-type: none"> • Need expertise to set up • Need to maintain • Sales staff need to be trained • Might get responses from people from other countries/only a local company (nothing to do with cost) 		3	
(b)	<ul style="list-style-type: none"> • A program • That copies itself/spreads • Corrupts/deletes data/disrupts the way a computer works/makes computer unreliable. An example of an effect is acceptable providing it is given as an example 		3	
(c)	One from: <ul style="list-style-type: none"> • Keep software up to date/set to automatic live update • Set up software to check all incoming email/attachments/programs • Set up software to check all files used • Set up/carry out regular scans 		1	
(d)	<ul style="list-style-type: none"> • Computer Misuse (Act, 1990) CAO 		1	
(e) (i)	<ul style="list-style-type: none"> • Illegal/unauthorised • Access to a computer (system) 		2	
(ii)	<ul style="list-style-type: none"> • Firewall CAO 		1	
5 (a)	<ul style="list-style-type: none"> • Database CAO 		1	
(b)	1 mark each correct line			4
	Customer name	Text		
	Customer address	Text		
	Price quoted	Numeric		
	Has the order been received?	Boolean (yes/no)		
	Either or both parts of Boolean (yes/no) is acceptable for last line			

6 (a)	1 mark each correct label: B – any or all of the bulleted list at the bottom C – any or all of the logo D – any or all of the buttons	3
(b) (i)	Two from: <ul style="list-style-type: none"> • The user communicates/interacts with the system (need more than <i>is interactive</i>, but accept the word <i>interacts</i> if put in a context) • The user can choose/clicks on hyperlinks • To go to particular pages/to choose the page to go to/to choose a route through the presentation 	2
(ii)	Advantage: <ul style="list-style-type: none"> • Customers can see/choose/go to (just) the pages they are interested in • Customers might be more interested because they are involved Disadvantage: <ul style="list-style-type: none"> • Have to be confident to use the computer/know what to do • Can't look at the presentation from a distance • Might not attract interest as much as a continuous presentation • May miss information 	2
(c)	Max 3 marks each type <ul style="list-style-type: none"> • Sound /audio/music(1) • Any example of a sound that could be added (1) • A second example of a sound that could be added (1) • Any reason why it would enhance the presentation (1) E.g. You could add a recording of someone talking (1) about how good the windows are (1) which makes the presentation more interesting/persuasive (1) <ul style="list-style-type: none"> • Video/animation (1) • Any example of a moving image (1) • A second example of a moving image (1) • Any reason why it would enhance the presentation (1) E.g. You could add a video of someone showing you around their conservatory which would be more realistic than a single photograph (1) E.g. You could get the text/elements to move onto the page bit by bit (1) to allow customers to read each part/emphasise parts/make the presentation more eye-catching (1) <i>NOT</i> 'more professional' For more than one mark on the media type must give example. Do NOT allow expansions on their own. Only accept general answers such as 'interesting' once.	6

7 (a)	<p>Two from:</p> <ul style="list-style-type: none"> • It is small/light/can be taken wherever he goes • Battery power/no lead needed • Zac needs to use it in different places/is not always working in the office <p>Give first/second point if reverse given about desktop computers</p>	2
(b)	<p>Two from:</p> <ul style="list-style-type: none"> • For diary/appointments • For address book • For notes • To access email • To view documents/spreadsheets • To keep/store pictures • For travel directions/GPS/SATNAV • For task lists • For reminders • Calculator <p>There may be other suitable applications, but they must be to do with work, i.e. not games, purposeless web browsing or general interest, e.g. news/weather.</p>	2
(c)	<p>Four from:</p> <ul style="list-style-type: none"> • PDA smaller • PDA more convenient to get out • PDA quicker to look up diary/address book • Portable computer more powerful/larger memory/storage • Portable computer able to use more applications/example, e.g. CAD/presentation • Portable computer has full size keyboard/easier to enter data • Portable computer has larger screen/easier to show customers • Portable computer and PDA can be connected/can synchronise data <p>4 marks only available if at least one advantage of each is given.</p>	4
(d) (i)	<p>Two from:</p> <ul style="list-style-type: none"> • Draw shapes • Shade • Draw accurately • Add dimensions/draw to scale • Easily edit/change features • View from different angles/3D • Copy & paste features, e.g. windows (need purpose, not just <i>copy/cut & paste</i>) • Use CAD files directly with CAM 	2
(ii)	<p>1 mark for advantage:</p> <ul style="list-style-type: none"> • Can be used on portable computer (at customer's home) • Can easily show different ideas/what ifs • Shows more clearly what it will look like on own house/photograph might show a house that looks different. • Can put individual features in <p>1 mark for disadvantage:</p> <ul style="list-style-type: none"> • Takes time to produce • Drawing less realistic than photograph • Needs skill to use/Zac needs to learn to use package 	2

(e)	<p>6 points from:</p> <p>Letter:</p> <ul style="list-style-type: none"> • Gives a permanent record/can't be altered • Can be sent to anyone/not everyone has email • Some customers would prefer a letter/think a letter is more formal/appropriate • Can mailmerge • Can keep a copy of what was sent • Plans/ photos can be included <p>Email:</p> <ul style="list-style-type: none"> • Email easier than writing a letter/specific examples e.g. 'don't have to find paper...' • Email gets there quicker (than a letter) • People might reply quickly/easily to an email • Can ask for read receipt to know that email has been seen • Customer can print email • Can send more details as attachments to an email • Email cheaper than post/telephone • Can ask for delivery/read receipt • Sender has a copy • Can send email to multiple recipients at once <p>Mobile telephone:</p> <ul style="list-style-type: none"> • Can telephone from anywhere (don't penalise if say 'in the car') • Almost everyone has a telephone (not just 'everyone') • Instant response • Don't have to have access to email • Conversation /dialogue • Know that the customer has got the message • Personal approach, may be able to persuade <p>Nothing to do with texting..</p> <p>NOT reference to leaving messages/ansaphones</p> <p>Must be at least relative advantages of the option written about.</p> <p>6 marks only available if at least one advantage of each is given.</p>	6
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8 (a)	1 mark for any correct example for each row		4
	Type of cell	Any of:	
	A cell containing text	See list below	
	A cell that has been formatted as currency	See list below	
	A cell that has been formatted as a number to 1 decimal place	B2	
	A cell that has been formatted to wrap text	A1, A6, B6, C6	
(b) (i)	<ul style="list-style-type: none"> • B7 		1
(ii)	<ul style="list-style-type: none"> • D7 • F7 		2
(c)	<ul style="list-style-type: none"> • (Total) sales (this month) • Greater/more than or equal to, or at least • (£)25,000 <p>1 mark available if one of the relevant IF formulas is copied. Must be specific to the formula not just general knowledge</p>		3
(d)	<p>Maximum 3 marks from:</p> <ul style="list-style-type: none"> • makes (B1) into an absolute reference (1) • when you copy/replicate/fill the formula (down) (1) • (B1/it) doesn't change (1) • distinguishing between \$B and \$1 (1) 		3
			100

Checklist for q8a

Text	A1	Currency	B1
	A2		B3
	A3		B7
	A6		B8
	A7		B9
	A8		B10
	A9		B11
	A10		C7
	A11		C8
	B6		C9
	C6		C10
	D1		C11
	D2		D7
	D6		D8
	E1		D9
	E6		D10
	F6		D11
			E7
			E8
			E9
			E10
			E11
			F7
			F8
			F9
			F10
			F11

**General Certificate of Secondary Education
Applied ICT (Double Award) 1494
June 2006 Assessment Series**

Unit Threshold Marks

Unit		Maximum Mark	A*	A	B	C	D	E	F	G	U
4872	Raw	100	86	78	70	62	54	47	40	33	0
	UMS	100	90	80	70	60	50	40	30	20	0
4873	Raw	50	46	41	36	31	26	21	16	11	0
	UMS	100	90	80	70	60	50	40	30	20	0
4874	Raw	50	46	41	36	31	26	21	16	11	0
	UMS	100	90	80	70	60	50	40	30	20	0

Entry Information

Unit	Total Entry
4872	8938
4873	8528
4874	9335

Specification Aggregation Results

GRADE	A*A*	AA	BB	CC	DD	EE	FF	GG	UU
UMS	270	240	210	180	150	120	90	60	0
Cum %	0.9	5.9	19.5	41.7	60.8	74.5	86.0	95.5	100

9792 candidates were entered for aggregation this series

For a description of how UMS marks are calculated see;
www.ocr.org.uk/OCR/WebSite/docroot/understand/ums.jsp

Statistics are correct at the time of publication

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

OCR Information Bureau

(General Qualifications)

Telephone: 01223 553998

Facsimile: 01223 552627

Email: helpdesk@ocr.org.uk

www.ocr.org.uk

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Telephone: 01223 552552
Facsimile: 01223 552553

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