

# GCSE

## ICT A

General Certificate of Secondary Education 2357/01

Paper 1 (Foundation Tier)

### Mark Scheme for June 2010

Oxford Cambridge and RSA Examinations

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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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Que	estion	Answer			Mark	Additional Guidance	
1	(a)	Ticks as shown:					
		Device	Input (√)	Output (✓)	Storage (√)		
		A4 scanner	✓				
		CD/DVD drive			$\checkmark$		
		Keyboard	✓				
		Monitor		✓			
		Video camera	✓			[5]	
1	(b)	(Inkjet) printer				[1]	
1	(c)	Headphones				[1]	
1	(d)	Mouse				[1]	
1	(e)	Microphone				[1]	

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Que	estion		Answer			Mark	Additional Guidance
2	(a)		Ticks as shown:				
			Graphics Tool	Tick (✓)			
			Crop				
			Cut				
			Flip				
			Fill	✓			
			Resize	$\checkmark$			
			Rotate	• • • • • • • • • • • • • • • • • • •		[0]	
2	(b)	(i)	One from:			[3]	
					9r	[1]	
2	(b)	(ii)	One from: CD-R(W) DVD-/+ R(W) DVD-RAM zip disk jaz disk Flash memory of Memory stick External hard di Floppy disk	ive			Accept a suitable <i>writable</i> storage medium. Allow eg Pen Drive, USB stick, USB key, USB fob but do not allow USB on its own.
				M, DVD-ROM, email, or c	sk by itself.	[1]	
2	(c)	(i)	B5			[1]	
2	(c)	(ii)	<b>One mark for <u>each</u> c</b> E5 E8	f:		[2]	E17 does not contain a formula so do not allow it.

Que	estion	1	Answer						Additional Guidance
2	2 (d)		Ticks as shown:						
			Cell	Value <b>(√)</b>	Formula (✓)	Label (√)			
			B1 B6	✓		✓			
			E6		<ul> <li>✓</li> </ul>			[3]	
2	(e)	(i)	1 mark for Allow with	=E8-E15 1 mark for correct calculation. 1 mark for identifying the cells in the correct order. Allow without = sign.					
			Allow 1 ma	rk for any	other corre	ct formula.		[2]	
2	(e)	(ii)	E17	E17					

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2/two         11/eleven         Field       Data type         House No.       (Text)         Gender (M/F)       Boolean	Why this type has been chosen(Because house numbers could be a mixture of numbers or letters eg 61a)	[1]	Mark each box independently. Allow alphanumeric for home telephone number.
Field     Data type       House No.     (Text)	chosen(Because house numbers could be a mixture of numbers or letters eg 61a)	[1]	
House No. (Text)	chosen(Because house numbers could be a mixture of numbers or letters eg 61a)		
	(Because house numbers could be a mixture of numbers or letters eg 61a)		
Gender (M/F) Boolean			
	One of only two choices		
Home telephone <b>Text</b> number	One from: Can use any character in the field Can have leading zeros		
Number of Integer	Can use spaces     Only whole numbers	[6]	
<ul> <li>Four from:</li> <li>Can sort the data <ul> <li>On several fields</li> <li>(All data in a recording fields in the recording field fields fields in the recording field fields f</li></ul></li></ul>	rd is sorted) with all other data in other d save) queries data	[4]	
	<ul> <li>brothers/sisters</li> <li>Four from: <ul> <li>Can sort the data</li> <li>On several fields</li> <li>(All data in a recordination of the data)</li> <li>(All data in a recordination of the data)</li> <li>Can search the data</li> <li>(Can create and search the data)</li> <li>Can use multiple tables of</li> <li>Can customise research the data</li> </ul> </li> <li>Can normalise data</li> <li>Can use data entry forms</li> </ul>	brothers/sisters       Four from:         • Can sort the data       • On several fields at once         • (All data in a record is sorted) with all other data in other fields in the record         • Can search the data         • (Can create and save) queries         • Can use multiple tables of data         • Can customise relationships between tables/data         • Key field         • Can use data entry forms         • Can produce reports	brothers/sisters       Four from:         • Can sort the data       • On several fields at once         • (All data in a record is sorted) with all other data in other fields in the record         • Can search the data         • (Can create and save) queries         • Can use multiple tables of data         • Can customise relationships between tables/data         • Key field         • Can use data entry forms         • Can produce reports

Que	estion		Answer	Mark	Additional Guidance
3	(e)	(i)	(Primary) Key (field)	[1]	This is the only answer.
3	(e) (f)	(ii)	<ul> <li>One from:</li> <li>Unique</li> <li>Everyone is different</li> <li>No two are the same</li> </ul> Example Points and Expansions from:	[1]	One mark for the method, one for what it
			<ul> <li>User IDs <ul> <li>to identify users to the system</li> </ul> </li> <li>Passwords <ul> <li>on files/folders</li> <li>for security</li> </ul> </li> <li>Rules for setting password/example rule <ul> <li>to make passwords more secure/difficult to guess.</li> </ul> </li> <li>Rules for use of passwords by user/example rule <ul> <li>change the password regularly</li> <li>to protect against breach of security of password.</li> </ul> </li> <li>Rules for attempts at password guessing/example eg <ul> <li>three attempts and account lockout</li> <li>to prevent password cracking</li> </ul> </li> <li>Set access rights <ul> <li>for security/control access to files/folders</li> </ul> </li> <li>Use of firewalls <ul> <li>to allow access only to authorised computers/data packets</li> <li>to allow access only to authorised computers/data packets</li> <li>to make connection invisible to others on internet</li> <li>to make secure connection</li> </ul> </li> </ul>		"How it works" marks must be correctly related to the method.

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Que	estion	Answer					Mark	Additional Guidance
3	(f)	Continued						
		<ul> <li>to preve</li> <li>Advertise laws</li> </ul>	penalties for h	computers with Misuse Act nacking data unintelligi	ible to the unaut			
			1 point	2 points	3 or more points			
		No expansions	1	2	3			
		1 expansion	2	3	4			
		2 expansions	3	4	5			
		3 or more expansions	4	5	6			
							[6]	

Que	estion	Answer			Mark	Additional Guidance		
4	(a)	Ticks as show	vn:					
		Feature	Back button (√)	Email address (✓)	Hyperlink (✓)	Web address (√)		
		Α	<ul> <li>✓</li> </ul>					
		В				$\checkmark$		
		С			✓			
		D		✓			[4]	
4	(b)	Two from:						
		History (I	list)					
			k/favourites					
		Type in t	he URL					
			viewing off-line	e				
			se a shortcut				[2]	

Que	estion	Answer	Mark	Additional Guidance
5	(a)	Two from:         Use of bullet points         New line for each day/time         Use of bold/italic/underline/font/colour effect         Change the font family/type         Use of text size differences         Put in a table         Centred	[2]	
5	(b)	Two from:         • Compare poster         •with original newsletter         •to make sure there are no transcription errors         • Verification/verify         • Spell check         • Proof read	[2]	

Question			Answer	Mark	Additional Guidance	
6	(a)	(i)	Modem		This is the only answer	
6	(a)	(ii)	<ul> <li>Two from:</li> <li>Converts</li> <li>To/from analogue data</li> <li>From/to digital data</li> <li>Demodulate/modulate (the signals)</li> </ul>	[2]	Accept references to "computers use digital", "telephone lines use analogue…" demodulate/modulate (the signals) is worth one mark, but can award a second if there is an explanation of what this means	
6	(b)		<ul> <li>Four from: <ul> <li>Always on/anytime access to internet</li> <li>no need to actively connect</li> </ul> </li> <li>Central database available all the time</li> <li>High speed connections <ul> <li>faster downloads of files/no interruptions/won't time out</li> <li>faster loading of pages</li> </ul> </li> <li>Telephone line is left free/don't need a second line <ul> <li>for voice/fax use</li> </ul> </li> <li>Email delivered from server as it arrives at server <ul> <li>no need to request it</li> </ul> </li> <li>More than one computer/user can access the internet at once</li> </ul>	[4]		

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