

GCSE

ICT

General Certificate of Secondary Education 2359/01

Paper 3 (Foundation Tier)

Mark Scheme for June 2010

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Mark schemes should be read in conjunction with the published question papers and the Report on the Examination.

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Q	Mark Scheme	Marks	Additional guidance		
1	images numbers sound				Correct answer only
	tables text video			[2]	
2	bar code reader CD graphics table	et			Correct answer only
	hard disk MICR touch screen			[2]	
3	An icon is a feature of a graphical user interface. A typed instruction is a feature of a command line interface. A motor is an output device used in computer controlled systems. A touch screen is an input device which allows you to choose options from a menu.				Correct answer only
	Presentation software is used to produce a slide show.			[5]	
4	Task Tuning in data twice and comparing the two versions	Validation (✓)	Verification (✓)		Correct answer only
	Typing in data twice and comparing the two versions Using a check digit Using a range check	✓ ✓	V		
	Visually checking that data has been entered correctly ✓			[4]	

Mark Scheme	Marks	Additional guidance		
Statement	True (√)	False (✓)		Correct answer only
A firewall is a storage medium		✓		
Buying on the internet has caused some high street shops to close	✓			
Using passwords helps prevent unauthorised access to computer systems	✓			
The Computer Misuse Act allows you to look at any data that an organisation might be keeping about you		~		
The Data Protection Act requires organisations to register with the Information Commissioner	✓		[5]	
		✓		Correct answer only
A computerised theatre booking system				
Printing payslips		✓		
Processing cheques at a bank		✓		
Processing electricity bills		✓		
Purchasing an item at a POS terminal				
Withdrawing money from a bank cash machine (ATM)			[3]	

t	Task Interviewing users to find out what		Systems cyc			Correct anguer only
t	Interviewing users to find out what		Systems cycle stage Analysis Evaluation Design			Correct answer only
	they think of the new system					
	Observing workers using the old system					
F	Producing a user guide					
	Running the old system and the new system together		Documentation			
	Specifying validation methods		Implementation		[5]	
C Sc C	entral server/computer/main computer/hub everal work stations radiating from central server ables connected from work stations to server every work station is connected to server diagram must show the shape and components of a star network with labels to show				Marks cannot be given for labels if the network shape is wrong. Accept wireless connection between	
	erver, work stations/computers and				[4]	workstations and server.
9	Activity		Utility	Application		Correct answer only
(Creating a database		(*)	\(\frac{\(\frac{1}{2}\)}{\(\frac{1}{2}\)}		
l —	Exploring options within a model					
	Making a back up disk ✓					
1	Moving a file from one disk directory to another ✓					
	Producing a word-processed docun	oducing a word-processed document			[5]	

Q	Mar	rk Sch	neme	Marks	Additional guidance
10	OMR is optical mark reading/reads (pencil) marks user a scanner OMR is used for reading school registers/reading exam question responses from exam papers lottery tickets MICR is the reading of magnetic ink characters/magnetic ink character recognition MICR is used in reading data from bank cheques			Allow Optical Mark Recognition/Reader Allow Magnetic Ink Character Recognition/Reader	
				[4]	Allow any reasonable use.
11	(a)	(i)	Bar code reader/electronic weighing scales/touch screen	[1]	Allow bar code scanner but don't allow scanner on its own
		(ii)	It is more accurate than keying in data /less chance of errors Data is entered more quickly than keyboard entry	[2]	Must mention data when giving an answer related to speed but not when writing about accuracy Don't allow 'no' errors Allow quicker than typing data/details/products
	(b)	(i)	Magnetic stripe reader/chip and pin reader	[1]	Allow chip and pin/magnetic stripe Don't allow reader on its own Don't allow magnetic card reader
		(ii)	Two from: Account number/card number Expiry date Start date Issue number PIN number Sort code Credit limit	[2]	

Q	Mar	k Scheme	Marks	Additional guidance	
11	(c)	Three from: Eg Wider range of choice of goods Don't have to pay travelling costs Don't have to spend time travelling to shops/goods are delivered/don't have to leave the house Easier to search for specific goods Can shop when shops are closed	[3]	Shopping lists are remembered by supermarket Don't allow can compare prices. Don't allow special offers	
11	(d)	Four from: Increased unemployment/changed roles for checkout operators/managers Increased employment for technical staff Some workers will have the opportunity to go part time There will be the opportunity to job share There will be the opportunity for flexible working hours Technical staff can work from home More van drivers will be employed More employees will work antisocial hours	[4]	Eg checkout operators will become pickers For technical staff accept web designers/web site maintenance staff	
12	WAN – two from: Wide area network/network over a wide geographical area Needs a router Connects two or more LANs together Internet is a WAN Phone line/satellite/telecommunication link LAN – two from: Local area network/network over a small geographical area/network in a single building Only needs a hub/switch Use as basis for an intranet Physical cables/WiFi (short distance)		[4]		

Q	Mark Scheme	Marks	Additional guidance
13	Four from:		
	Consistency of layout		
	User always finds similar features in the same place/area of screen		
	Harmonious/pleasing colour scheme		
	Easy to follow/clear navigation pathways/hyperlinks		
	Simple/uncluttered/uncomplicated/well-organised screen layout/limited content of each		
	screen		
	Logical order		
	Allows ease of use/easy understanding of screen/easy to read/fields clearly labelled		
	Adequate spacing of entry fields		
	Fixed length text boxes/fixed length prompts/individual character boxes/tick boxes/radio		
	buttons/drop down lists		
	Font/font size/font colour should be easy to read		
	Buttons should be included/icons		
	Instructions should be clearly set out/help facility/examples of how to complete form		
	Designs could include menus/drop down lists	[4]	
		- -	

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