

GCSE

ICT A

General Certificate of Secondary Education

Unit 2359/01: Paper 3 (Foundation Tier)

Mark Scheme for June 2011

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Question	Expected Answer				Mark	Rationale/Additional Guidance
1	CD R CD		hard dis	SC	[2]	Correct answer only Subtract one mark for every extra circle down to a minimum of 0
2	A control program is used in a microwave ovenTrue (\checkmark)False (\checkmark)A control program is used in a microwave oven \checkmark \checkmark A database is used to store patient records in a hospital \checkmark \checkmark A spreadsheet is used to manage personal finance \checkmark \checkmark A word processor is used to produce 			[5]	Correct answer only Subtract one mark for every extra tick down to a minimum of 0	
3	Voice input A graphics tablet A barcode reader A touch screen	use of their hands to computer. is used to enter free into a computer. is used in libraries books. is used by waiters i	is used to enter free hand drawings into a computer. is used in libraries to input data from		[4]	Correct answer only

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Question	Expected Answer			Mark	Rationale/Additional Guidance
4			(√)		Correct answer only Subtract one mark for every extra tick down to a minimum of 0
	A company's payroll system				
	A computerised theatre booking sys	stem	✓		
	Entering the details of a new consig books in a library	nment of			
	Paying a bill using home banking	~			
	Printing examination certificates				
	Withdrawing money at an ATM				
				[3]	
5					Correct answer only
		Analysis (√)	Design (√)		Subtract one mark for every extra tick down to a minimum of 0
	Establishing the input, output and processing required				
	Interviewing users of the current system				
	Selecting fields for a database		✓		
	Specifying any validation required		✓		
		_1		[4]	

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Question	Expected Answer				Mark	Rationale/Additional Guidance	
6			True (√)	False (√)		Correct answer only Subtract one mark for every extra tick down to a minimum of 0	
	A LAN needs satellite comm link computers			~			
	A network within a school w LAN	ould be a	✓				
	A WAN usually covers a ver	y small area		~			
	The internet is a WAN		✓		[4]		
7						Correct answer only	
/		Validation (✓)		cation √)		Subtract one mark for every extra tick down to a minimum of 0	
	A check digit	✓					
	A range check	✓					
	Double entry			✓			
	Visually checking data			✓	[4]		
8	Four from: Video Animation Charts Sound Voice over Hyperlinks/links Hot spots Buttons Slide shows				[4]	Mark first four answers only	

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Question	Expected Answer			Mark	Rationale/Additional Guidance	
9		True (√)	False (√)		Correct answer only Subtract one mark for every extra tick down to a minimum of 0	
	Data is encrypted to prevent viruses		✓			
	Encryption prevents hackers from deleting the data		~			
	Encryption requires a key to decrypt the data	~				
	Encryption scrambles the data so that it cannot be understood	~				
			<u> </u>	[4]		
10	Two matched pairs from: Window – a temporary area opened on a screen used activity of a program/more than one piece of be displayed at a time				One mark for name, one for related description If not named can still gain a mark for a clear description. Mark first two answers only	
	Icon – small picture or symbol or shortcut/used to program or directory/clicking on it opens pr button used in navigation Menu – used to display a list of options/activities				Accept application instead of program. Accept image for picture	
	Pointer – is an icon/arrow which moves in response the mouse/used to identify position of curse its shape depending on its position on the s	or/often		[4]		

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Question	Expected Answer	Mark	Rationale/Additional Guidance
11	Two from: Teleworking Flexible working hours Need for re-training Part time working Increase in employment opportunities for IT staff/call centre operators Jobsharing	[2]	Accept training for retraining Allow clear descriptions instead of names
12	 Four from: They must register with the DPA The information must be obtained fairly The information must be obtained/processed lawfully The data will be held only for one or more specified and lawful purpose The data will not be used for anything other than that [specified] purpose The data will not be disclosed for anything other than that purpose The data held for any purpose must be adequate in relation to that purpose The data held for any purpose must be relevant in relation to that purpose The data held for any purpose must be excessive in relation to that purpose The data must be accurate The data must not be transferred to countries without any adequate DPA The data must not be kept up to date That an individual whose data is held is entitled to be informed, upon request by them of any data that is held 		Emboldened words are essential parts of the answer (accept outside EU)

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Question E	Expected Answer	Mark	Rationale/Additional Guidance
•	 An individual has the right to have access to such data held about them Where appropriate, to have such data corrected or erased Data must be secure Personal data shall be processed in accordance with the rights of data subject. 	[4]	

Question	Expected Answer	Mark	Rationale/Additional Guidance
13	Three matched pairs from:		Mark first three answers only
	Parallel running The old and new system are run together (until the new system is working satisfactorily).		One mark for name One mark for description
	Pilot running One department/branch uses the new system (until the new system is working satisfactorily).		Accept big bang for direct changeover
	Phased implementation One aspect/part of the system is implemented (and when successful other aspects are introduced one by one).		
	Direct changeover New system is introduced overnight (and old system discarded).	[6]	
14	Four from:		Order is not important
	 Mechanics interviewed for requirements Data is collected from experts/mechanics Knowledge base is designed/created Rule base is designed/created Inference engine is designed/created Input screen is designed/created Output format is designed/created Test the system. 	[4]	Don't accept names of components must have designed or created
	• rest the system.	[4]	

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Que	estion	Expected Answer	Mark	Rationale/Additional Guidance
15	(a)	Three from:		
		Saves time rather than queuing in shops		
		Don't have to waste time travelling to shops etc.		
		Disabled/housebound people don't have to travel/leave		
		home		
		Don't have to spend money on travelling expenses		
		(travelling long distances to shops)		
		Greater choice of goods		
		Can shop when shops are closed/can shop 24/7		
		Less traffic pollution		
		Less danger of mugging		
		Items can be delivered		
		Can save your shopping list/order		
		Easier to search for/find goods/make price comparisons		
		Don't have to leave the house in bad weather		
		Can access product reviews to help making choices.	[3]	
	(b)	Three from:		
		Fewer staff needed so less spent on wages		
		Fewer shops needed so less spent on rates/rent		
		Less actual cash handled so fewer robberies		
		Less money spent on security staff/staff to handle money		
		Wider customer base – (increased sales/profits)		
		More accurate stock control/less stock goes missing		
		Less shoplifting		
		People will buy even when the shop is closed increasing		
		profits.	[3]	
		Total	[60]	

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