

Mark Scheme June 2007

Results Mark
Scheme

GCSE ICT (1185/3185 2H)

1185/H 3185/H SECTION A	
Question	Answer
1	B
2	D
3	B
4	D
5	C
6	A
7	B
8	C
9	D
10	C
11	B
12	C
13	A
14	B
15	A
16	C
17	A
18	D
19	C
20	A

Mark Scheme - 0706 1185/H 3185/H Section B					
QUESTION	ANSWER		POSS. MARK	MAX	
1	(a)	Format of data is shortened	1		
		Sensible example	1		
		One of:			
		Letters/characters used to represent words	1		
		Series of letters and numbers used to represent words	1		
			Series of letters and numbers used to identify people	1	
					2
	(b)				
			Logical	Verbal	
			Job title = waiter	Filter / query / search	1
		or	Job titles*	1	
		Job title = waitress	Waiters & waitresses*	1	
			(*must have previous parts)		
	Job title = wait* / w*		3 / 0		
		Select all correct fields to print	1		
		Allow is the same as / like / = (or equivalent)			
				4	

**Mark Scheme - 0706 1185/H 3185/H
Section B**

QUESTION	ANSWER	POSS. MARK	MAX
	(c) <u>Select</u> date of birth	1	
	Date of Birth field identified and =>01/01/63 or >31/12/62 or =>01/01/1963 or >31/12/1962	2	
			2
	(d) Extreme - between 01/01/89 & 01/01/93, or between 01/01/1919 and 01/01/1947	1	
	Invalid - any text / number / incorrect formatted dates/ date before 1919 or after 1993 Must have a date in either extreme or typical, even if wrong, else 0	1	
	Typical - anything between 1920 and 1992 (must not contradict their extreme)	1	
			3
	(e) Collected data fairly and lawfully	1	
	Data must be relevant	1	
	Data must be accurate / errors must be corrected	1	
	Data must be kept up to date	1	
	Data must be kept only as long as necessary	1	
	Cannot be sent outside of the European union	1	
	Data must be shown to subjects on request	1	
	Must specify the purpose for holding the data	1	
	ACCEPT Must register with DP registrar	1	
	Not Data may not be passed to others		2
		Total	13
2	(a)		
	i Manipulation of text and graphics	1	
	formatting	1	
	Frames / text boxes	1	
	text flow	1	
	text wrap	1	
	Insert images/ graphics / Clip art	1	
	backgrounds	1	
	borders	1	
	Not fonts, colour etc (word processing);		

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Section B

QUESTION	ANSWER	POSS. MARK	MAX
	Not templates - given in question		
			3
ii	Everything looks the same/house style/company image	1	
	Accuracy	1	
	Saves time entering data	1	
	Can have 'fixed data' set up	1	
	Layout already created	1	
	Easy to use without training / novice users	1	
	Reusable	1	
			3
b	Open the card file / open template	1	
	Click <u>Insert image</u> (from file) / import photo to DTP software	1	
	<u>Select</u> photo (from file)	1	
	Click/ <u>select</u> position of photograph	1	
	<u>Edit/manipulate</u>	1	
	<u>Re-size</u>	1	
	<u>Crop</u>	1	
			3
QoWC	Reasonable English, reasonable spelling & punctuation	1	
	Good English, grammatically correct	1	
	2 technical terms (underlined) used correctly for 3rd marks	1	
			3
c	Word processing package / DTP	1	
	Open / create card template / file	1	
	Click on Mail Merge	1	
	Open database	1	
	Open the CUSTOMER_FILE	1	
	Insert fields/tags into the cards NOT gaps	1	
	Merge - logically correct in their response	1	
			6
		Total	18
3	a		
	i	Encryption / Encrypting / encryptor	1
	ii	Decryption / decrypting / decryptor	1
			2
	b		
	Back button	Movement back to already visited pages	1,1
	Forward button	Movement to next page	1,1

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Section B

QUESTION	ANSWER	POSS. MARK	MAX
	Home button	Allow to go back to home from different parts of site	1,1
	Drop-down menus	Limit selection choices	1,1
	Hyperlinks	movement to other pages	1,1
	Hotspots	movement to other pages	1,1
	Site map / menu / contents page	movement to other pages	1,1
	Search options	movement to particular page	1,1
			6
	NOT Navigator bar		
	(c)		
	i Cost of installation	1	
	Reliance on server	1	
	Performance	1	
	Need for network manager/systems administrator/technician	1	
	Users need to be trained to use the network	1	
	NOT need for security		
			3
	ii Access rights	1	
	Permissions	1	
			1
		Total	12

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Section C

QUESTION		ANSWER	POSS. MARK	MAX
1	(a)			
	i	Magnetic stripe (strip) / Magnetised Stripe(strip) /	1	
		Microchip / chip / memory chip	1	
	ii	Number, credit card number, card number, ID number (must include number)	1	
				3
	(b)			
	i	Magnetic Ink Character Reader / MICR	1	
				1
	ii	All details of account permanently on cheque	1	
		Accurate - NOT more accurate	1	
		Very difficult to forge	1	
		Very difficult to damage	1	
		NOT reader very fast - is in question		
				2
	iii	(Relatively) expensive to produce cheques	1	

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Section C

QUESTION	ANSWER		POSS. MARK	MAX	
	Expensive equipment needed		1		
				1	
	iv	All processing done in one go	1		
		Advantage	Once set up can be done without human intervention e.g. Left to run when overnight	1	
		Disadvantage	Only suitable where no immediate response necessary	1	
				3	
	v	<u>Real time</u>	Instant response	e.g. computer games / process control systems/ air traffic control	1,1,1
		Transaction / interactive	Individual files updated following individual requests	e.g. airline seat booking	1,1,1
				6	
QoWC	Reasonable English, reasonable spelling & punctuation		1		
	Good English, grammatically correct		1		
	2 technical terms (underlined above) used correctly for 3rd marks		1	3	
			Total	19	
2	(a)				
		Ease of use - Any 3			
			Command buttons / Navigation buttons	1	
			Sensible field lengths	1	
			Coding	1	
			Scroll bars	1	
			Drop down menus	1	
			Tick box / option buttons	1	
				3	
		Personal Info - Any 2			
			Post Code	1	
			Contact No.	1	
			E-mail address	1	
				2	
		Hotel Info - Any 3			
			Specify hotel	1	
			Room type	1	

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Section C

QUESTION	ANSWER	POSS. MARK	MAX	
		Number of persons / beds	1	
		Dates required / Start Date & no. nights	1	
		Smoking/Non smoking	1	
		Special requirements	1	
		Number of rooms	1	
				3
	(b)	Reduction in staff / offices	1	
		Less errors as data entered by customers	1	
		Wider customer base	1	
		Statistical analysis	1	
		Can take bookings 24/7	1	
				2
			Total	10
3				
	ai	Star		
	aii	Line / bus		
	aiii	Ring		
		For each - One mark for correct configuration		
		For each - One mark for labelled server in correct position		6
	b	STAR		
		Advantage	Cable failure doesn't affect all workstations	1
			Performance of one machine doesn't affect others	1
			Less likely to slow down if many users	1
			Workstation can be added without closing network	1
		Disadvantage	needs a lot of cable	1
				2
		BUS		
		Advantage	small amount of cable	1

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QUESTION	ANSWER	POSS. MARK	MAX	
		If branch cable breaks rest of network unaffected	1	
	Disadvantage	Lots of users can make the network slow	1	
		Failure in central cable stops all workstations	1	
				2
	RING			
	Advantage	small amount of cable	1	
		Fast as data flows in one direction	1	
	Disadvantage	Lots of users can make the network slow		
		Failure in cable stops all workstations	1	
		If one workstation crashes / is switched off then the network goes down	1	
		Need to switch off network to add a workstation	1	
	All cheap / fast answers must be justified			
				2
(c)	Network card		1	
	Wireless (Wi-fi) adaptor / receiver		1	
				1
			Total	13
4	ai	Passwords on files	1	
		Set access rights	1	
		Read only files	1	
		Back-ups kept safely / different location	1	
		Archiving files	1	
		Encryption	1	
		Not backup on its own		
				2
	aii	Locks on doors / windows / keyboards	1	
		Cable ties	1	

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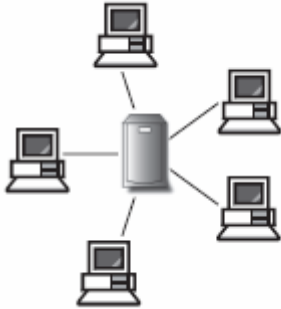
QUESTION	ANSWER	POSS. MARK	MAX
	Alarm system	1	
	Bars on windows	1	
	Biometric entry systems	1	
	Locate computers upstairs	1	
			2
b	Eye strain	1	
	Take regular breaks	1	
	Anti glare screens	1	
	Swivelling screens	1	
	Correct lighting	1	
	Blinds at windows	1	
	Look away from the screen and focus on distant objects	1	
	Repetitive strain injury/wrist	1	
	Wrist rests/gel pads	1	
	Ergonomic keyboards	1	
	Regular breaks	1	
	Regular breaks - allow once only		4
		Total	8
5	Investigation	1	
	Find out how current system works	1	
	Interview / meet /talk to staff	1	
	Questionnaires for staff	1	
	Observe staff	1	
	Study documentation	1	
	Analysis	1	

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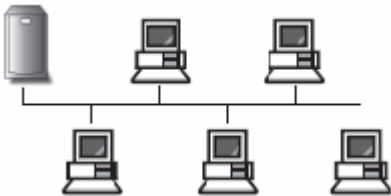
QUESTION	ANSWER	POSS. MARK	MAX
		Talk with staff to determine:	1
		Objectives	1
		Possible alternatives (hardware / software)	1
		Identify the problems	1
	Design		1
		Get staff help / approval of:	1
		Hardware / software	1
		Data capture forms	1
		Input methods	1
		Interfaces	1
		Test plan	1
	Implementation		1
		Determine best method of implementation of:	1
		Direct / phased / parallel /pilot scheme	1
		User documentation - to help staff	1
		Training	1
		Testing - who / how /what	1
	Monitoring / evaluation		1
		Staff feedback:	1
		Problems	1
		Good points	1
		Total	13

1185 2H
QC3a

(i) Star Network



(ii) – Bus Network



iii) – Ring Network

