IGCSE ICT 4385, NOVEMBER 2005 MARK SCHEME

Paper 2H

6	any three from: spell check (1) prevent spelling errors being published (1); hyperlink check (1) ensure navigation works correctly (1); verify content (1) to ensure correct information (1); try different browsers / colour settings / screen resolutions (1) to see if site displays correctly (1).	(a)	1.
4	any two from: counter (1) show how many visits the site has had (1); email address / link (1) to get comment from users (1); online form / questionnaire (1) to get feedback from users (1).	(b)	
0 marks	Total 1		
9	vehicle colour: text (1) / 3 (1) / example shows encoded text (1) next service date: date (1) / 6 (1) / example shows formatted date (1) telephone: text (1) / 11 (1) / 11 characters + spaces in example / spaces and leading 0 show it is not a number (1)	(a)	2.
4	for each field, award (1) for an appropriate validation type	(b)	
3 marks	Total 1		
2	data items / slips collected over a period (1) then processed at one go (1)	(a)	3.
1	better control over stock / faster turnaround of orders (1)	(b)	
3	needs less space for storage / display (1) faster / easier data entry (1) fewer errors / easier validation (1)	(c)	
2	verification (1) to prevent wrong items being sent (1)	(d)	
8 marks	Total		

		email / contact	no need to man	24 / 7 access	-	
		form FAQ / customer support pages	phones cuts down on support staff requirement	no need for phone calls	_	
		sign ups for newsletter / special offers	gives targeted advertising	receives offers, upgrade info etc.		
		download of patches, drivers	cheaper than sending out disks	24 / 7 access / no postal cost / get latest software versions		
		search facility	present active pages / create specialised pages / present tailored info to client	easy to find what you need		
		any 2 for (3) each	١		6	
	(b)	function: join similar sites / companies / groups (1) company: adverts / referrals from other sites (1) customer: links to similar products / companies (1)				
				Total ^o	9 marks	
12.	(a)	_	formulae / calculations ething will behave (1)	(1)	2	
	 (b) any three from: less materials / workers / cost to try out improvements (1) faster to set up / change improvements (1) easy to try out / change road lay-outs (1) no traffic disruption whilst trying out improvements (1) 					
	(c)	·	n that traffic will behave	, ,	3	
	` /	has random varia		•	1	
	(d)	-	nical presentation e.g. g uld match method and ii (1)		2	

(e) Method: non-technical presentation e.g. diagrams/multimedia (1) Justification: should match method and involve function rather

than technical detail (1)

Company advantage

Customer advantage

11. (a)

Service

Total 10 marks

2

6. Spam: unwanted adverts / messages / emails / mass mailing / mailing sent to many people Reduced by: filter; change email address; obscure or randomised email name Virus: pieces of code / programs; run unauthorised; cause damage / spread to other computers Reduced by: anti-virus software; not downloading or running attachments max (2) per section 6 Total 6 marks 7. (a) any three from: camera to take pictures (1) microphone to record / pick up speech (1) comms / video conferencing software to handle the comms (1) camera driver to control the camera (1) 3 (b) any two from: can be used to send files / attachments (1) receiving staff don't need to be in office when message is sent (1) record can be kept of messages (1) 2 multiple mailing facility (1) 1 (c) faster / instant response; two-way / real time communication (1) Total 6 marks readings sent via ADC 8. at regular intervals controlled by computer / microprocessor recorded on spreadsheet saved on hard drive / as file open spreadsheet file select cells / readings create graph / paste into graph package close spreadsheet file open DTP package / file copy and paste / save and import graph

adjust / resize / position graph

max (3) from each section

save DTP file

Total 8 marks

8

9.	64 m = 67	picture = 1000000 x 2 = 2000000 bytes (1) segabytes = 64000000 x 1.024 x 1.024 bytes (1) 108864 bytes (1)	
	6710	8864 / 2000000 = 33.55 (1)	4
		Total 4 r	narks
10.	A= transaction file (1) B= update / merge (1) C= grandfather file (1) D= transaction file (1) E= father file (1) F= update / merge (1) G= son file (1)		
		Total 7 r	narks
11.	(a)	security problems / signal can be picked up outside building (1) speed / radio has lower bandwidth / slower than cable (1)	2
	(b)	security: use encryption (1) or speed: multiple radio channels /two or more NICs per machine (1)	1
	(c)	ASDL / ISDN modem (1) to convert computer signals into telecom signals and or vice versa (1) router (1) enable sharing / link several computers to one telecoms line / handle multiple IP addresses (1)	4
		Total 7 r	narks
12.	(a)	SUM (1) (F2:F6) (1)	2
	(b)	= B2 (1) * 1.5 (1)	2
	(c)	+ (1) C3 (1) * E3 (1)	3
	(d)	(i) IF (D2) (1) > 48 (1) then "over" (1) else "not over" / " " (1)	4
		(ii) select G2 and copy; then select G3 to G6 and paste / fill down(1)	1
		Total 12 n	narks
		TOTAL MARKS FOR PAPER	: 100