## IGCSE ICT 4385, NOVEMBER 2005 MARK SCHEME

## Paper 2H

1.	(a)	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).	6
	(b)	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).	4
		Total 10 mar	ks
2.	(a)	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)	9
	(b)	for each field, award (1) for an appropriate validation type	4
		Total 13 mar	ks
3.	(a)	data items / slips collected over a period (1) then processed at one go (1)	2
	(b)	better control over stock / faster turnaround of orders (1)	1
	(c)	needs less space for storage / display (1) faster / easier data entry (1) fewer errors / easier validation (1)	3
	(d)	verification (1) to prevent wrong items being sent (1)	2

Total 8 marks

			. ,			
		email / contact form	no need to man phones	24 / 7 access		
		FAQ / customer support pages	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					
	(b)	function: join similar sites / companies / groups (1) company: adverts / referrals from other sites (1) customer: links to similar products / companies (1)			3	
				Total 9	9 marks	
12.	(a) using functions / formulae / calculations (1) to show how something will behave (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)					
	(0)	has random variability (1)				
	(d)	Method: any technical presentation e.g. graphs/spreadsheets (1) Justification: should match method and involve need to present facts and figures (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

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

max (3) from each section

adjust / resize / position graph

open DTP package / file

save DTP file

copy and paste / save and import graph

8

Total 8 marks

each picture = 1000000 x 2 = 2000000 bytes (1) 64 megabytes = 64000000 x 1.024 x 1.024 bytes (1) = 67108864 bytes (1)					
67108864 / 2000000 = 33.55 (1)	4				
	Total 4 marks				
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 marks				
11. (a) security problems / signal can be picked up out speed / radio has lower bandwidth / slower tha	<b>3</b> \ ,				
(b) security: use encryption (1) or speed: multiple radio channels /two or more NI	Cs per machine (1) 1				
(c) ASDL / ISDN modem (1) to convert computer signals and or vice versa (1) router (1) enable sharing / link several compute telecoms line / handle multiple IP addresses (1)	ers to one				
	Total 7 marks				
<b>12.</b> (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				
<ul><li>(ii) select G2 and copy; then select G3 to G6 and (1)</li></ul>	nd paste / fill down				
	Total 12 marks				
TOTAL MARKS FOR PAPER: 100					