

## **General Certificate of Secondary Education June 2010**

**Information and Communication Technology 3521 Full Course** 

**Specification A** 

3521/F Foundation Tier

## **Final**

Mark Scheme

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of candidates' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

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1	(a)	(i)	Keyboard		Correct answer only	1
1	(a)	(ii)	F (Scanner)		Correct answer only	1
1	(a)	(iii)	graphics digitiser OCR OMR	concept Keyboard light Pen mouse/rollerball	MICR digital camera/webcam joystick/games controller	
			bar code reader touch screens/pad	sensor microphone	graphics tablet wand <b>Any 1 x1</b>	1
1	(b)	(i)	Printer (allow prefix	e.g. laser)	Correct answer only	1
1	(b)	(ii)	E (Monitor)		Correct answer only	1
1	(b)	(iii)	plotter motor/robot arm lights	actuator/relay speaker/headphor		
					Any 1 x 1	1
1	(c)		D (DVD drive)		Correct answer only	1
2	(a)		Α		Correct answer only	1
2	(b)		В		Correct answer only	1
2	(c)		D		Correct answer only	1
2	(d)		С		Correct answer only	1
3	(a)		Line spacing		Correct answer	1 1
			only Centre only		Correct answer	'
3	(b)		Spell checker Grammar checker Both words neede	ed (not just "spelling	]") Any 1 x 1 mark	1
3	(c)			ne fourth row and cut d of cut only if follow		1
			Position the cursor at the <b>end</b> of the flyer and <b>paste</b> in line four			
			Or CTRL X CTRL V <b>Key words in bold</b>	I		

4 Title at least 3/coded Postcode at least 7 (or clear 3 box gap 3 box ) Telephone number (day) / 1 at least 11 Telephone number (evening) / 2 at least 11 Contact tel. Number at least 11 Mobile tel. Number at least 11 **NOTE MAX TWO TELEPHONE NUMBERS** E-mail address at least 20(sensible splits) Date (of joining)/date at end of form at least 8(2-2-2/4) DOB at least 8(2-2-2/4) Gender at least 6 or coded Name of Doctor/Previous Doctor at least 15 Doctor's address etc. at least 20 any no. of lines or memo 1 doctor mark only Boxes only unless memo specified [ ] - open boxes are OK - boxes with small vertical lines are OK but dashes are NOT. Memo = lines/boxes/dashes **IGNORE FILLING IN** Mark only the first 4 fields Ignore correct duplicate fields e.g. 3<sup>rd</sup> telephone number – these do not count in the FOUR. Tick correct field name - do not penalise lack of capitals Tick correct number of boxes/memo field for the corresponding field name. Count ticks - divide by 2 - round down Max 4 marks 5 (a) 1 mark for the **first 4 moves** 

1 mark for the **last 5 moves** 

2

5	(b)								
J	(6)		FD 5 RT 90 FD 2	1 mark		OR	FD 5 LT 90 FD 3	1 mark	
			BK 5 RT 90 FD 2	1 mark			LT 90 FD 2 BK 2 LT 90		
			answers are				FD 5	1 mark	2
6	(a)		•	d must never d must contai table		•	ue in each r	t answer only ecord in the t answer only	1 1
6	(b)		Fewer err	ss time / quic ors o less storage		nter data			
								Any x 1 mark	1
6	(c)			I computer rops and cables			Correct computer to	t answer only the desk t answer only	1
6	(d)		Make it so Make it a Make son Don't write	ng/quite long omething not combination nething you we it down/dor	easy to g of letters vill remer	guess / s / numb nber	not related		
			Change it	regularly			A	ny 2 x 1 mark	2
7	(a)	(i)	Copyright				Correc	t answer only	1
7	(a)	(ii)	If 7a (i) no	ot copyright 7	a (ii) can	not be a	awarded ma	arks	
			Not taken Take com	n extra licenc the software puter home Ill on 4 comp	home		A	ny1 x 1 mark	1
7	(b)	(i)	peoples' of	no gain <b>una</b> u computer sys s usually reme	tem	d / illega	al access to	oother	1
			<b>Why</b> To gain ad / <b>look at</b> /		y / dama	ıge / co	rrupt / add	virus / delete	1

7	(b)	(ii)	Software/is a program Replicates itself		
			(may) cause problems/damage to othe	r software or systems  Any 2 x 1 mark	2
8	(a)		You can transfer money 24 hours a day You can pay bills from your account with	_	1
			home	Correct answer only	1
8	(b)		Not feel a personal service / don't like us know how Access/ISP can cost money Virus issues Hacking issues Not everyone has access to Internet/corbroken/Internet down/other access proble Fraud/Phishing/Identity Theft/less secure	mputers/computer ems	2
9	(a)		C4	Correct answer only	1
9	(b)		(=)sum(C3:C11) – allow C12 or C13 inst (=)C3+C4+C5+C6+C7+C8+C9+C10+C1		1
9	(c)		=C3*3+D3	Correct answer only	1
9	(d)		Click in <b>F3/cell</b> containing the formula <b>Replicate</b> the formula down / <b>drag down</b>	the hottom right hand	1
			corner to cell F11 Allow VALID copy and paste answer	Journal	1
9	(e)		Click on the word Help or ? on the top of F1	the spreadsheet / press	1
			Type in formulae/formula and select or	ne of the options given	1
9	(f)		E-mails will usually arrive faster E-mails will be cheaper to send	Correct answer only Correct answer only	1 1
10	(a)		Detailed planning for the reports that will system	be produced by the Correct answer only	1
			A test plan with test data	Correct answer only	1
10	(b)		Expected results	Correct answer only	1
10	(c)	(i)	10	Correct answer only	1
10	(c)	(ii)	15	Correct answer only	1
11	(a)		Don't need to remember the "commands Keyboard/typing often not needed Often "language free" / visual / icons to c Easy to use / easy to understand / user f	lick on	1

11	(b)		Command Driven Menu Driven Allow Conversational (Interface) / CLI Forms Dialogue (Interface)	Correct answer only Correct answer only	1
11	(c)		use of colour use of sound use of images/pictures/graphics position of items on screen help facilities house style Font size		2
			NOT easy to use.	Any 2 x 1 mark	_
11	(d)	(i)	Data transfer to and from peripherals Sharing resources between different task	Correct answer only	1
			onaing resources between unierent task	Correct answer only	1
11	(d)	(ii)	Supervises the programs whilst they are time Provides start up instructions (boot up) Handling interrupts Share resources between different tasks Reporting on errors/Error handling Allocation of storage space/managing me		1
12	(0)		Chapling of data on INDLIT	Ally I X I mark	
12	(a)		Checking of data on INPUT by software to see if it is reasonable / sensible / within correct)	n a given range (not <b>Any 2 x 1</b>	2
12	(b)		(i) range (check) (ii) presence (check) (iii) check digit	Correct answer only Correct answer only Correct answer only	1 1 1
13	(a)	(i)	FG123 TV459 Ignore grammar and punctuation or m	ultiple lines Correct answer only	1
13	(a)	(ii)	FZ034 Freezer FG156 Fridge TV517 Television Not "TV" or "Telly" but ignore minor s	pelling mistakes Correct answer only	1
13	(b)	(i)	List Product Code When Product Name (Ignore missing capital letters)	Equals DVD player  Correct answer only	1
13	(b)	(ii)	List Product Code, Product Name When		
			Selling price (£) <b>Greater than</b> 500 (Ignore missing capital letters)	Correct answer only Correct answer only	1 1

14	(a)	(i)	Random Access Memory	Correct answer only	1
14	(a)	(ii)	RAM is volatile memory	Correct answer only	1
14	(b)		Information should be kept accurate and	up to date	
				Correct answer only	1
			Information should be relevant and not e	excessive for the	
			purpose	Correct answer only	1
			Information should be kept secure	Correct answer only	1
14	(c)		The right to see or be sent a copy of the	data held about them	
				Correct answer only	1
			The right to seek compensation for dama	age caused by the use	
			of inaccurate data	Correct answer only	1