

General Certificate of Secondary Education June 2010

Information and Communication Technology 3527 Short Course

Specification A

3527/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.

Further copies of this Mark Scheme are available to download from the AQA Website: www.aga.org.uk

Copyright $\ensuremath{\texttt{@}}$ 2010 AQA and its licensors. All rights reserved.

COPYRIGHT

AQA retains the copyright on all its publications. However, registered centres for AQA are permitted to copy material from this booklet for their own internal use, with the following important exception: AQA cannot give permission to centres to photocopy any material that is acknowledged to a third party even for internal use within the centre.

Set and published by the Assessment and Qualifications Alliance.

The Assessment and Qualifications Alliance (AQA) is a company limited by guarantee registered in England and Wales (company number 3644723) and a registered charity (registered charity number 1073334). Registered address: AQA, Devas Street, Manchester M15 6EX

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 Any 1 x 1 mark	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/headphone	es Any 1 x 1 mark	1
1	(c)		D (DVD drive)		Correct answer only	1
2	(a)			laced over parts of pict	Correct answer only	1
2	(b)		H: Solution of 'what F: Replication of cel	•	Correct answer only Correct answer only	1 1
2	(c)		G: Selections of a p	icture can be reflected	, scaled and morphed Correct answer only Correct answer only	1
3	(a)		Line spacing Centre		Correct answer only Correct answer only	1 1

3	(b)	 Picture/clipart added/graphic/logo Text/font size made bigger/smaller/changed (Text made) bold/underline/italic/font style Drawing tools/auto shape Using bullet points/numbering/lists Tables Text boxes/Frames Borders/Border Art Text font type changed/Word Art used Columns/Tab/Indentation/Margins Coloured background/pattern/shade/watermark Orientation (portrait/landscape) NOT 'colour' on its own 	2
		Any 2 for 1 mark each for feature named.	
		 Can be easily read/makes text stand out Looks more attractive Produces professional layouts/interesting layouts Grabs people's attention/eye-catching/noticeable So you know what it is about (picture/clipart/graphic ONLY) Corporate ID (logo) 	2
		Any 2 for 1 mark each relating to above (could be repeats)	
3	(c)	Spell checker Grammar checker Both words needed (not just "spelling") Any 1 x 1 mark	1

4 Title at least 3/coded House no. at least 3

Street - Address line 1 at least 10
Town/Area/County - Address line 2 at least 10

(address – instead of above) at least 20/memo/or

2x10

Not any other "name" field

NOTE MAX TWO FOR ADDRESS LINES

If terms Address 1 and town are mixed up – usually gains one tick

Postcode at least 7

(or clear 3box 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
Fax number at least 11

NOTE MAX TWO TELEPHONE NUMBERS

E-mail address at least 20(sensible

splits) memo

Date (of joining)/date at end of form

DOB

at least 8(2-2-2/4)

at least 8(2-2-2/4)

at least 6 or coded

Name of Doctor/previous Doctor at least 15

Doctor's address 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 5 fields

Ignore correct duplicate fields e.g. 3rd telephone number – these do not count in the FIVE.

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 5 marks

5 (a) 1 mark for the **first 4 moves** 1 mark for the **last 5 moves** 2 5 (b) FD 5 OR **RT 90** FD 5 FD 2 1 mark LT 90 FD 3 1 mark BK 5 **RT 90** LT 90 FD 2 1 mark FD 2 BK 2 LT 90 Other correct answers are possible FD 5 1 mark and must be awarded the marks 2 6 (i) В **Correct answer only** 1 (a) 6 (a) (ii) D Correct answer only 1 1 6 **Correct answer only** (a) (iii) Α 6 (iv) С **Correct answer only** 1 (a) 6 (b) Evaluation Documentation Feasibility Maintenance Monitoring User Guide Any 1 x 1 mark 1 7 (a) A key field must never be empty **Correct answer only** 1 A key field must contain a different value in each record in the database table Correct answer only 1 7 It takes less time / quicker to enter data (b) Fewer errors 1 It takes up less storage space Any 1 x 1 mark 7 To lock all computer rooms when not in use (c) **Correct answer only** 1 Use clamps and cables to attach the computer to the desk **Correct answer only** 1

7	(d)		Make it long/quite long/more than 6 chara Make it something not easy to guess/not in Make it a combination of letters/numbers/ Make something you will remember Don't write it down/don't tell anyone	related to you	0	
			Change it regularly	Any 2 x 1 mark	2	
8	(a)	(i)	A5	Correct answer only	1	
8	(a)	(ii)	Number	Correct answer only	1	
8	(b)	(i)	(=)sum(C3:C11) – allow C12 or C13 inste (=)C3+C4+C5+C6+C7+C8+C9+C10+C11		1	
8	(b)	(ii)	=C3*3+D3	Correct answer only	1	
8	(c)		Click on the word Help or '?' on the top of press F1	the spreadsheet/	1	
			Type in formulae/formula and select one of the options given			
9	(a)		Checking of data on INPUT by software to see if it is reasonable/sensible/within a correct)	given range (not Any 2 x 1 mark	2	
9	(b)		range (check) presence (check)	Correct answer only Correct answer only	1 1	
10	(a)	(i)	FG123 TV459 Ignore grammar and punctuation or mu	ultiple lines Correct answer only	1	
10	(a)	(ii)	FZ034 Freezer FG156 Fridge TV517 Television Not "TV" or "Telly" but ignore minor sp	pelling mistakes Correct answer only	1	
10	(b)	(i)	List Product Code When Product Name I	Equals DVD player Correct answer only	1	
10	(b)	(ii)	List Product Code, Product Name When	Comment an array and	4	
			Selling price (£) Greater than 500 Ignore missing caps	Correct answer only Correct answer only	1	
11	(a)		You can transfer money 24 hours a day You can pay bills from your account without home	Correct answer only out having to leave Correct answer only	1	

11	(b)		 Not feel a personal service/don't lead to computers/don't know how Access/ISP can cost money Virus issues Hacking issues Not everyone has access to Internet/computers/computer broken 	ken/Internet down	2
			 Fraud/Phishing/Identity theft/less 	Any 2 x 1 mark	
12	(a)		Back problems Eye strain	Correct answer only Correct answer only	1 1
12	(b)		 Regular breaks/walk around/relax air/physical exercise Correctly position in relation to co Visit doctor for advice Use wrist support/rests 	mputer and screen	
			 Ergonomically designed keyboard 	Any 2 x 1 mark	2
12	(c)		 Trailing wires Electrical faults Overload sockets/supply Radiation 		2
				Any 2 x 1 mark	
13	(a)	(i)	Random Access Memory	Correct answer only	1
13	(a)	(ii)	RAM is volatile memory	Correct answer only	1
13	(b)		Information should be kept accurate and Information should be relevant and not expurpose Information should be kept secure	Correct answer only	1 1 1
13	(c)		The right to see or be sent a copy of the The right to seek compensation for dama	Correct answer only	1
			inaccurate data	Correct answer only	1
14	(a)	(i)	Heat sensor / thermistor/ temperature se Not thermometer	nsor Correct answer only	1
14	(a)	(ii)	Any average reading across the sensors One might get broken/backup Conditions may vary across the island unrepresentative values) Large area to cover with only one senso Compare readings to identify errors mark	amay be best	1

14	(b)	(i)	B (logging interval)	Correct answer only	1
14	(b)	(ii)	A (Calibrate)	Correct answer only	1
14	(b)	(iii)	C (Period of logging)	Correct answer only	1
14	(c)		Can operate 24/7 efficiently Do not have to go out in "bad" weather Readings would be more accurate/no human error Can be taken at very short intervals if needed Would not have to waste time travelling to the island/safer than travelling/cheaper than travelling Cheaper than employing a person		
				Any 2 x 1 mark	