AQA

ASSESSMENT and
QUALIFICATIONS
ALLIANCE

General Certificate of Secondary Education

Information and Communication Technology 3527F Short Course
Specification A

3527/F   Foundation Tier

Mark Scheme

2008 examination - June series

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.

1	(a)	C (drawing)	Correct answer only	1
1	(b)	H (word processing)	Correct answer only	1
1	(c)	B (desk top publishing)	Correct answer only	1
1	(d)	F (spreadsheet)	Correct answer only	1
1	(e)	A (database)	Correct answer only	1
1	(f)	E (modelling)	Correct answer only	1
2		D	Correct answer only	1
3		D	Correct answer only	1
4		B or D		1
5		B	Correct answer only	1

6 (a)   **Increase text size**/Text size made **bigger**   3
         Changed **font type/name**
         Text made **bold/** font **style**
         Centre text
         Numbered points/indents   Any 3 x 1 mark

6 (b) **Different Features (look for bold features)** 4
- **Bullet** points
- Text made **italics/underline**
- **Coloured** text / **coloured** background / **colour**
- **Alignment -** Text **right/(fully) justify**
- Import company **logo/clip art/picture/image**
- **Drawing tools/auto shape**
- **Tables**
- **Text boxes/frames**
- **Borders**/Border Art
- **Columns/Tab/margins**
- **Shaded/pattern/watermark**
- **Text wrapping**
- **Page size / orientation**
- **Word art**

Any 2 x 1 mark

Reasons – can appear twice
If feature incorrect, can't gain credit for reason
- Can be **easily read**
- Looks more **attractive/more interesting**
- Produces **professional layouts**
- Produces **interesting layouts**
- Makes text **stand out**
- **Grabs** peoples **attention/eye catching/more noticeable** Any 2 x 1 mark

7 (a) (i) **D** (Joystick) 1
F (Microphone
K (Touch sensitive screen)
1 mark any correct answer (max 1 mark)

7 (a) (ii) Concept keyboard MICR (reader) 1
OCR (reader) Web cam
OMR (reader) Tracker ball
Joystick/game controller Bar code (reader)
Graphic tablet Laser pen
Touch screens/pad Light pen
Interactive whiteboard Digital camera
Mouse Graphic digitizer
Keyboard Sensor
Scanner
Please do not allow backing store
Any 1 mark

| 7 | (b) | (i) | **F** (Laser printer)
H (Plotter)
J (Speaker) | | | 1 |

1 mark any correct answer (max 1 mark)

| 7 | (b) | (ii) | Monitor | Ink-jet printer | COM | 1 |
| | | | Dot-matrix printer | | | |

Please do not allow backing store

Any 1 mark

| 7 | (c) | (i) | **B** (CD-ROM)
C (hard disk)
I (RAM) | | | 1 |

1 mark any correct answer (max 1 mark)

7	(c)	(ii)	Floppy disk (drive)	Memory stick/Pen drive	1
			Zip disk (drive)	CDR (drive)	
			CD-RW (drive)	EPROM	
			Flash card	DAT tape/Magnetic tape (drive)	
			DVD - RW		

NOT just disk drive OR CD OR Compact Disc

Any 1 mark

| 8 | (a) | | Cell | Correct answer only | 1 |

| 8 | (b) | (i) | Date | | 1 |
| | | | **Accept close spelling** | | |

| 8 | (b) | (ii) | Currency | | 1 |
| | | | **Accept close spelling** | | |

8	(c)		**Column** (graph)/chart		1
			Bar (graph)/3D Bar Graph etc.		
			Pie (chart)	Any 1 mark	
			Bold word is needed		

8	(d)		**(=) d17/b5** (or /c11 or /c12) Must use the / sign	1
			For d17 could be Sum(d8:d12) or = sum(d17/b5)	
			(D8+D9+D10+D11+D12); use of : (colon) instead of +	
			OK without = sign. **NOT** d17/150	

8	(e)	**1. Check** the **cost in D19** (Cost per student) is < £20 or <= £20 (visual or validation) **2. Reduce cost/number in**……….. (e.g. decorations / meal etc or cell reference) OR **increase the number of students.** **3. Check for error message** 4. **Repeat steps 1 and 2 until cost in D19** (Cost per student) is **<£20 <= £20** (Ok / acceptable) Allow Goal seeker solutions that cover these points **Goal seek by itself scores 1** (2nd mark from above possible) Any 2 x 1 mark	2
9	(a)	C (data logging) Correct answer only	1
9	(b)	K (sensor) Correct answer only	1
9	(c)	H (logging interval) Correct answer only	1
9	(d)	B (calibrate) Correct answer only	1
10	(a)	**Directly /electronically connected to a computer/** computer system/network/internet 1 mark NOT just log in	1
10	(b)	**Advantages to the customer** • Often **cheaper**, rather than getting it from a local shop – cheaper on its own is OK/no need to travel • Done from the **comfort of your own home** or the idea of not leaving the house • **Wide choice** of goods / goods available from **all over the world** • **Shop 24 / 7** Any 2 x 1 mark	2

10	(c)		2

Disadvantages to company/individual
- Not feel a **personal service**
- Staff can **waste time just surfing the net**
- Access/ISP can **cost money**
- **Virus** issues
- **Hacking** issues
- May cause **unemployment** – must be clear this applies to the companies
- **Fear** of buying due to **credit card security** would cut sales/identity theft
- **Not** everyone has **access/skills to Internet/computers/computers could go down**
- **May get lost/damaged** in the post
- Potential customers are **less likely to know the company/individual exists**

                                                Any 2 x 1 mark

10	(d)	**Reasons for not allowing some goods**	1

- **Illegal / stolen / Copyright** (to have them or sell them – suitable example is fine)
- Dangerous / offensive goods
- Seller banned from site

                                                Any 1 mark

11	(a)	MUST USE COMMAND LIST ONLY	2

Fd6   (or Fd5 Bk4 Fd5)   1 mark

Rt90
Fd5   Both instructions   1 mark
Allow spaces and capitals / lower case

11	(b)	MUST USE COMMAND LIST ONLY	2

Fd6   (or Fd5 Bk4 Fd5)
Rt90   Both instructions   1 mark

Bk4   1 mark

OR
Fd6
Rt90
Rt90
Rt90   All instructions   1 mark

Fd4   1 mark
Allow spaces and capitals / lower case
Max 2 marks for this part of the question.

11	(c)	MUST USE COMMAND LIST ONLY	3

Moving to A
Fd6   (or Fd5 Bk4 Fd5)
Rt90

Fd5   1 mark
Mark this part before starting the movement to B
***Movi

ng to B
Bk4
Bk5 (either order for Bk4 and Bk5) 1 mark

OR
Moving to B
Rt90
Rt90
Fd4
Fd5 (either order for Fd4 and Fd5) 1 mark

Mark this part before starting the movement to start
****

If the second mark is wrong then look for any of these
solutions for the third mark.
Moving to starting position
Fd4
Rt90
Fd6 (or Fd5 Bk4 Fd5)   1 mark

OR

Bk4
Rt90
Rt90
Rt90
Fd6   (or Fd5 Bk4 Fd5)   1 mark
 OR
Rt90
Rt90
Fd4
Rt90
Fd6 (or Fd5 Bk4 Fd5)   1 mark
****

Allow spaces and capitals / lower case
Any extra movement at the end– no penalty.

12	Data has no meaning/no context	3
	Information has meaning/has context	
	Example of data e.g. 040607	
	Example of information e.g. 4th June 2007	
	Any 3 x 1 mark	

13	Membership Number or equivalent at least 5	6
	Title at least 3	
	Surname/family name at least 10	
	Other names/first name/initials at least 10	

NOTE MAX THREE FOR NAME

House number   at least 2
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 2 x 10

NOTE MAX TWO FOR ADDRESS LINES

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

Postcode   at least 7
                        (3 space 3)
Telephone number (day)   at least 11
Telephone number (evening)   at least 11
Contact tel. number/emergency number   at least 11
Mobile tel. number   at least 11

NOTE MAX TWO TELEPHONE NUMBERS
Fax number   at least 11
E-mail address   at least 20/memo
                        (sensible splits)
Photo   box to fit
Date of membership/expiry of membership
                     at least 8 (2-2-2/4)
Identification given   at least 10
DOB   at least 8 (2-2-2/4)
(allow over 18 and YES/NO)   at least 3
Signature   memo
NB – could use the date at end of form

NOT NI – Not doctor, not doctor's address etc.
Boxes only unless memo specified
[_] – open boxes are okay – boxes with small vertical lines are okay but dashes are NOT.

Memo = lines/boxes/dashes   IGNORE FILLING IN

Mark only the first 6 fields
Ignore correct duplicate fields e.g. 3rd telephone number – these do not count in the SIX
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

14	(a)	Heating		1
		Pets Allowed	Any x1 mark	
14	(b)	12	Correct answer only	1
14	(c)	**Unique/different** identifier for each record		1

14	(d)	Sensible	Correct answer only	1
14	(e)	Max people	Correct answer only	1

14	(f)	**Faster** to **search** (NOT easier) **Faster to sort**/sort on multiple fields **Faster/easier** to **edit**/update Takes up **less space** **Backup data** **Less chance of losing**/misplacing records on a computer **Faster/neater to graph** data **Access** from **outside office** **Faster/more attractive** generation of **reports** **Access** by **several people** at **one time** **Export** to other applications **More secure because**……………… **Validation** helps to **reduce errors** **NOT easy to use (0)** Any 2 x 1 mark		2

15	(a)	Resizing of objects	Correct answer only	1
		Importing of images	Correct answer only	1

15	(b)	Use of **brushes** addition of **text** (any DTP) NOT just 'fonts' Picture to be **moved, copied, rotated, reflected, scaled** **freehand drawing** Use of colour colour fills textual effects Crop Not resizing of objects Not Importing of images Any 1 mark		1

15	(c)	Can have **whatever you want for the logo** rather than what is available in clip-art. Import **photographs** Can **modify/personalise** existing clip-art to suit school's needs. Accept **change/add colours** Any 2 x 1 mark		2

16	(a)	Most obvious/**easiest to guess**/everyone knows his name NOT just the words 'his name'		1

16	(b)	**Adfhi1245361** Correct answer only Least obvious/**hardest to guess**/figure out/random/ no meaning **Longest** **Combination** of upper/lower case letters and numbers Any 1 mark		1 1

16	(c)	Stop access to **"some" employees of the paper** accessing Daniel's article	1
		Stop people from **outside the newspaper/hackers** accessing Daniel's article	
		Any 1 mark	

16	(d)	**Lock doors**	2
		Lock keyboard	
		Security guards	
		Retina scans	
		Security passes	
		Any 2 x 1 mark	

17	(a)	**Sending** a text **message**/attachment/file/picture/letter	1
		Over a **communications network**	1
		LAN/WAN/Internet/WAP phone/from one computer to another	
		Electronic Mail scores nothing by itself.	

| 17 | (b) | E-mails will arrive faster   Correct answer only | 1 |
| | | E-mails are cheaper to send   Correct answer only | 1 |

17	(c)	Can use **tracking** with post / Can obtain **proof of posting** from Post Office	1
		Need **computer / Internet/computer broken**	
		Cannot send **physical objects** (e.g. parcels)	
		Remote location **may have post but not internet** connections virus	
		NOT hacking/spam Any 1 mark	

17	(d)	**Immediate answer** /reply/ quick **two way communication**	1
		Can **"read" the reply** by tone of voice etc.	
		More personal	
		Any 1 mark	