AQA

A S S E S S M E N T and

Q U A L I F I C A T I O N S

A L L I A N C E

General Certificate of Secondary Education

Information and Communication Technology 3521F Full Course
Specification A

3521/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.

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

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)	The exclusive **legal** / own /belong to (publish/ perform/ film/ record…..) Protection of creative or artistic works		1
6	(b)	Clip-art is sometimes free of copyright		
			Correct answer only	1
6	(c)	A **fine/** pay compensation **Prison** sentence **Caution**	Any 1 x 1 mark	1

6   (d)   **Different Features (look for bold features)**   3

- **Numbered** points **/ bullet** points
- Increase text size/**Text** size made **bigger**
- Text made **bold/italics/underline/ Changed font style/effects** e.g. shadowing
- **Coloured** text / **coloured** background / **colour**
- **Alignment - Centre** text/ Text **right/fully justify/rotate text**
- Import company **logo/picture**
- **Move, rotate, edit images, drawing tools/auto shape**
- **Tables**
- **Text boxes**
- **Borders**/Border Art
- **Columns/Tab/margins**
- **Shaded/pattern/watermark/transparency**
- **Text wrapping**
- **Page size / orientation**
- **Word art**
- **Master page/header/footer/page numbers**

Any 3 x 1 mark

| 7 | 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

8	(a)	A14	Correct answer only	1

8	(b)	Date Currency Text Number Formulae Merging /wrapped text **Accept close spelling**	Any 3 x 1 mark	3

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

8	(d)	**(=) d17/b5** (or /c11 or /c12) Must use the / sign 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		1

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)	MUST USE COMMAND LIST ONLY Fd6 (or Fd5 Bk4 Fd5) 1 mark Rt90 Fd5 Both instructions 1 mark **Allow spaces and capitals / lower case**		2

| 10 | (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.

10   (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.

| 11 | (a) | **Directly /electronically connected to a computer/** computer system/network/internet   1 mark
 NOT just log in | 1 |

| 11 | (b) | **Advantages to the customer**
 • Often **cheaper**, rather than getting it from a local shop – cheaper on its own is OK
 • Done from the **comfort of your own home** or the idea of not leaving the house/no need to travel
 • **Wide choice** of goods / goods available from **all over the world**
 • **Shop 24 / 7**
                           Any 2 x 1 mark | 2 |

| 11 | (c) | **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 | 2 |

| 11 | (d) | **Reasons for not allowing some goods**
 • **Illegal / stolen / Copyright** (to have them or sell them – suitable example is fine)
 • Dangerous / offensive goods
 • Seller banned from site
                           Any 1 x 1 mark | 1 |

| 12 | (a) | **G** (OMR)   Correct answer only | 1 |

| 12 | (b) | **H** (Questionnaire)   Correct answer only | 1 |

| 12 | (c) | **A**   (Bar codes)   Correct answer only | 1 |

| 12 | (d) | **D** (Magnetic strip)   OR   **I** (sensor) | 1 |

| 12 | (e) | **E** (MICR)   Correct answer only | 1 |

13	(a)	Heating Pets Allowed	Any x1 mark	1
13	(b)	12	Correct answer only	1
13	(c)	**Unique/different** identifier for each record		1
13	(d)	Sensible	Correct answer only	1
13	(e)	Max people	Correct answer only	1
13	(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
14	(a)	D H	Correct answer only Correct answer only	1 1
14	(b)	B or E or F	Correct answer only	1
14	(c)	C	Correct answer only	1
14	(d)	A or I	Correct answer only	1
15	(a)	Most obvious/**easiest to guess**/everyone knows his name NOT just the words 'his name'		1
15	(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
15	(c)	Wide Area Network	Correct answer only	1
15	(d)	To access news/**send stories** from anywhere across the world To access **breaking news** quickly Any 1 mark		1

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

| 16 | (b) | E-mails will arrive faster   Correct answer only | 1 |
| | | E-mails are cheaper to send Correct answer only | 1 |

16	(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	

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

| 17 | (a) | software   Correct answer only | 1 |

17	(b)	Managing system security including memory	
		Correct answer only	1
		Transferring data to a printer Correct answer only	1

| 17 | (c) | Multi-user   Correct answer only | 1 |

17	(d)	Multi-tasking real time batch processing	1
		Windows … RISCOS Linux	
		NOT just XP, Vista, etc by itself	