



## General Certificate of Secondary Education

# Information and Communication Technology *Specification A*

*3527/F Short Course Tier F*

## Mark Scheme

*2006 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) B F G **Correct answer only** **3 marks**  
 Allow words  
 Digital Camera Joystick Keyboard
- (b) H I L M **Any 3 x1** **Correct answer only** **3 marks**  
 Allow words  
 Laser printer Plotter Screen (VDU) Speakers
- (c) A D J K **Any 3 x1** **Correct answer only** **3 marks**  
 Allow words  
 CD-ROM Hard Disk RAM ROM
- 2 (a) A I **Correct answer only** **2 x 1 mark**
- (b) C E **Correct answer only** **2 x 1 mark**
- (c) F H **Correct answer only** **2 x 1 mark**
- (d) B C D E I J **Any 3 x 1 mark each**  
 Allow any answers from these six
- 3 (a) F G **Correct answer only** **2 x 1 mark**
- (b) A B J **Correct answer only** **3 x 1 mark**
- (c) C K **Correct answer only** **2 x 1 mark**

- 4 (a)
- Picture/clipart added/graphic
  - Text/font size made bigger/smaller/changed
  - (Text made) bold/underline/italic/font style
  - (Text) centred
  - Drawing tools/auto shape or example e.g. drawing a circle
  - Using bullet points/numbering/lists
  - Tables
  - Text boxes
  - Borders/Border Art
  - Text font type changed/Word art used
  - Columns/Tab
  - Coloured text could be used
  - Coloured background/pattern/shade/watermark
  - Text right/(fully) justify/justification
  - Change the line spacing
  - Import text
  - Spellchecker/grammar checker
  - Grouping together
  - Copy and paste/cut and paste/drag and drop
  - Drawing tools/auto shape

Allow the words letters, writing instead of text

Colour must be qualified

**IMPORTANT - One bullet point can only score one mark.**

**NOT just Wizard/template NOT just alignment**

**NOT graphs/charts**

**NOT printing/saving**

**NB – allow “change/different font” for one mark but if a second font change is given then assume it is the same as the first. i.e. if given a mark for “change font” then no additional mark would be given for the answer “change font style.**

**1 mark each for feature named.**

**Any 5 x 1 mark**

**5 marks**

- (b)
- Employers/FE etc. may want to see handwriting/evidence for future
  - Can work anywhere when handwriting
  - Computer may breakdown/viruses/don't like computers/printer problems/power cut
  - Easier/neater for them to produce diagrams/label diagrams/annotate/don't like computers/cant use computers/quicker than typing

**NOT ‘to prove its yours’ ie plagiarism**

**Any 2 x 1 mark**

**2 marks**

5 **General Rule** – if field is not labelled as pet or owner, **assume it is the owner.**  
 This would **not** apply if a section is clearly indicated to be **for the pet.** OR where it would benefit the candidate, any fields that come after least 3 pet fields in a row.

\*\*\*\*\* **items assume to be pet**

**NOT “Surname” as already given**

**Owner details**

Title	at least 3
First name/Initials	at least 10/at least 2
Other names	at least 10

**NOTE MAX TWO FOR NAME**

House no./name	at least 1/10
Street - Address line 1	at least 10
Town/City/sArea/County -Address line 2	at least 10
(address – instead of above)	at least 20/memo/or 2x10

**NOTE MAX TWO FOR ADDRESS LINES**

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

Postcode	at least 7
(or clear 3box gap 3 box)	
Telephone number (day)	at least 11
Telephone number (evening)	at least 11
Contact/Emergency tel. Number	at least 11
Mobile tel. Number	at least 11

**NOTE MAX TWO TELEPHONE NUMBERS**

Fax number	at least 11
E-mail address	Memo/at least 20(sensible splits)
Date registered/today’s date	at least 8(2-2-2/4)
(date at end of form is OK)	
Signature	Memo

**NB – not DOB for owner**

**Pet details**

Pet name	at least 10
Pet type/animal	at least 5
DOB	at least 8(2-2-2/4)
Gender	at least 6 (or coded)
Photo	box to fit
<b>Breed*****</b>	10 characters
<b>Illness details/problems*****</b>	Memo/at least 20
<b>Vaccination details*****</b>	Memo/ at least 20
<b>Date of vaccination/drugs*****</b>	at least 8(2-2-2/4)

\*\*\*\*\* **allow without the word pets**

**NOT age/height/weights**

Boxes only unless memo specified

[ ] – open boxes are OK – boxes with small vertical lines are OK but dashes are NOT.

Memo = lines/dashes/large box/dots **IGNORE FILLING IN**

**Mark only the first 8 fields (Do not count surname)**

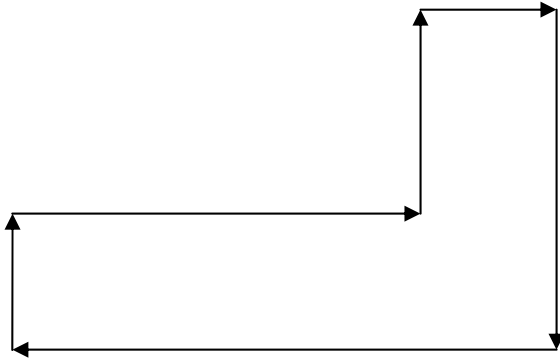
Ignore correct duplicate fields e.g. 3<sup>rd</sup> telephone number – these do not count in the EIGHT

Tick correct field name – do not penalise lack of capitals

Tick correct no. of boxes/memo field for corresponding field name.

Count ticks - divide by 2 - round down **MAX 8 marks**

6



**NB**

**5- Totally correct**

**4- Correct but translated (anywhere)**

**3 – Correct but translated AND rotated/reflected**

**Any extra line would not gain one of the marks above (think of it as -1).s**

**After this | -**

- try to find part of the drawing anywhere.

**PENUP**

**FORWARD 4**

**PENDOWN**

**Start drawing at the correct place 1 mark**

**FORWARD 2**

**Draw first line correctly 1 mark**

**RIGHT 90**

**FORWARD 6**

**LEFT 90**

**FORWARD 3**

**Draw next 3 lines correctly 1 mark**

**RIGHT 90**

**FORWARD 2**

**RIGHT 90**

**FORWARD 5**

**Draw next 2 lines correctly 1 mark**

**RIGHT 90**

**FORWARD 8**

**Finish shape correctly 1 mark**

7	(a)	D12	<b>Correct answer only</b>	<b>1 mark</b>
	(b)	(i) Any from A2, A6, A12 B1,B3,B4,B6,B7,B8,B9,B10,B12,B13,B14,B15,B16,B18 C1 D1, D20 E1	<b>Any 1 x 1mark</b>	<b>1 mark</b>
	(ii)	C2	<b>Correct answer only</b>	<b>1 mark</b>
		C3	<b>Correct answer only</b>	<b>1 mark</b>
	(c)	=SUM(E2:E18)	<b>Correct answer only</b>	<b>1 mark</b>
		=SUM(E2:E19)	<b>Correct answer only</b>	<b>1 mark</b>
	(d)	(i) C18	<b>Correct answer only</b>	<b>1 mark</b>
	(ii)	E18	<b>Correct answer only</b>	<b>1 mark</b>
		E20	<b>Correct answer only</b>	<b>1 mark</b>
	(e)	Faster <b>to</b> edit/change/alter/amend Neater/easier <b>to</b> edit/change/alter/amend Changes are automatically recalculated in totals. Time saved using replicate/copy down/fill down Validation advantages More accurate/fewer errors (only DTP if related to errors) Re-useable <b>NOT faster/quicker/neater/easier alone</b>	<b>Any 2 x 1 mark</b>	<b>2 marks</b>

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- 8 (a) Cheaper because they do not have to rent ... **Correct answer only** **1 mark**
- Gives them access to a world wide..... **Correct answer only** **1 mark**
- Gives their customers 24 hour access..... **Correct answer only** **1 mark**
- (b) **Disadvantages to company**
- Local people might not know you are there/cost of advertising
  - Not feel a personal service/no sales people to PUSH the products or answer questions.
  - Staff can waste time just surfing the net
  - Access/ISP can cost money/delivery cost/packing cost/advertising costs money.
  - Virus issues
  - Fear of buying due to credit card security would cut sales/fraud/hacking
  - Not everyone has access to Internet/computers
  - Companies website may crash/companies computer goes down
- Any 2 x 1 mark** **2 marks**
- (c) **Disadvantages to the customer**  
**NOT just no computer/no internet connection**
- Slower to get game/wrong game rather than getting it from a local shop/lost in post/might not arrive
  - Game may not work/wrong game delivered/it's slower to get replacement
  - Danger of fraud/hacking credit card details given on-line
  - Restricted access if computer broken/internet down/power cut
  - Harder to check the reliability of the company, rather than a local store.
  - Cannot try before you buy.
  - Pay for delivery
- Any 2 x 1 mark** **2 marks**
- 9 (a) Temperature/heat/thermistors **Correct answer only** **1 mark**  
**Not thermometer**
- (b) Data logging **Correct answer only** **1 mark**
- (c) (i) 5 minutes **Correct answer only** **1 mark**
- (ii) Time between 1<sup>st</sup> and last reading **1 mark**
- (d)
  - Readings are likely to be more accurate **Correct answer only** **1 mark**
  - People do not have to go out in bad weather **Correct answer only** **1 mark**
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- 10 (a) **Mistake**  
**M1 - Product code PC047 has a price of 9,999 min 9999**  
**M2 – Number in stock field text instead of number**  
**min Number in stock field text**  
**any 1 x 1mark**
- Reason**  
**R1 - Outside of an acceptable range**  
**R1 - Too high when compared to the others**  
**R2 – A field set up to take numbers should be number NOT text**  
**Numbers are left aligned**  
**any 1 x 1mark**
- (b) 14 **Correct answer only** **1 mark**
- (c) 8 **Correct answer only** **1 mark**
- (d) (i) Product ID **Correct answer only** **1 mark**
- (ii) Unique identifier/all IDs are different **1 mark**
- (e) PC040 **Correct answer** **2 marks**  
 PC040 plus anything else - scores 1 mark
- 11 (a) Make it (reasonably) long – at least 6 characters  
 Make it a mixture of letters/numbers, upper/lower case, other characters (at least 2 combinations)  
 Make it one you will remember (could give a reason for this)  
 Make it one other people won't guess/not obvious  
 Don't write it down/don't tell anyone  
**NOT “not too complicated”**  
**Any 2 x 1 mark** **2 marks**
- (b) Allows anyone who has found out the password, less time to access the info.  
 “Inspires” confidence that the system is **safe** (with qualification) if it is changed say each week  
**Do not allow “just in case some one finds out what it is”**  
**Not ‘told to’ or ‘have to’**  
**Any 1 x 1 mark** **1 mark**