



General Certificate of Secondary Education

Information and Communication Technology *Specification A*

3521/F Full 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.

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- 1 (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**
Allow any answers from these six
- 2 (a) (i) CD ROM drive **Storage Correct answer only 1 mark**
- (ii) Digital Camera **Input Correct answer only 1 mark**
- (iii) Graphics digitiser **Input Correct answer only 1 mark**
- (iv) Hard disk drive **Storage Correct answer only 1 mark**
- (v) Laser Printer **Output Correct answer only 1 mark**
- (vi) Light Pen **Input Correct answer only 1 mark**
- (vii) Monitor **Output Correct answer only 1 mark**
- (viii) OMR **Input Correct answer only 1 mark**
- (ix) RAM **Storage Correct answer only 1 mark**
- (x) Touch pad **Input Correct answer only 1 mark**
- (b) Information is **lost** when the computer is **switched off/crash** (or similar)
1 mark
Temporary / not permanent memory so information is/could be **lost**
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3	(a)	D12	Correct answer only	1 mark
	(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	Any 1 x 1 mark	1 mark
		(ii) C2 C3	Correct answer only Correct answer only	1 mark 1 mark
	(c)	=SUM(E2:E18) =SUM(E2:E19)	Correct answer only Correct answer only	1 mark 1 mark
	(d)	(i) C18	Correct answer only	1 mark
		(ii) E18 E20	Correct answer only Correct answer only	1 mark 1 mark
	(e)	Faster to edit/change/alter/amend Neater/easier to 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 NOT faster/quicker/neater/easier alone	Any 2 x 1 mark	2 marks

- 4 **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 (date at end of form is OK)	at least 8(2-2-2/4)
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
Breed*****	10 characters
Illness details/problems*****	Memo/at least 20
Vaccination details*****	Memo/ at least 20
Date of vaccination/drugs*****	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. 3rd 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**

5 (a) F G **Correct answer only 2 x 1 mark**

(b) A B J **Correct answer only 3 x 1 mark**

6 (a) Cheaper because they don't have to rent **Correct answer only 1 mark**

Gives them access to a world wide..... **Correct answer only 1 mark**

Gives them 24-four 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

7	(a)	(i)	Analysis	Correct answer only	1 mark
		(ii)	Design	Correct answer only	1 mark
		(iii)	Implementation	Correct answer only	1 mark
		(iv)	Testing	Correct answer only	1 mark
		(v)	Analysis	Correct answer only	1 mark
		(vi)	Design	Correct answer only	1 mark
		(vii)	Design	Correct answer only	1 mark
		(viii)	Evaluation	Correct answer only	1 mark
		(ix)	Analysis	Correct answer only	1 mark
		(x)	Evaluation	Correct answer only	1 mark
	(b)	input	Correct answer only	1 mark	
		software	Correct answer only	1 mark	
		sensible	Correct answer only	1 mark	
		Order is vital in this question			
	(c)	Check digits			
		Range check			
		Numeric check			
		Directory check/list check/drop down/etc			
		Other sensible answers			
		Length check			
		Presence check			
		Input mask			
			Any 2 x 1 mark		2 marks

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- 8 (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 1 mark
- 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 1 mark
- (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 **1 mark**
- (e) PC040 **Correct Answer only** **1 mark**
- (f) (i) It takes less time to enter data **Correct answer only** **1 mark**
It takes up less storage space **Correct answer only** **1 mark**
- (ii) Codes may not be universal
Codes may be confusing/need to be looked up
Any 1 x 1 mark **1 mark**
- 9 (a) Availability of help **Correct answer only** **1 mark**
Consistency of layout **Correct answer only** **1 mark**
Use of colour and sound **Correct answer only** **1 mark**
- (b) Don't need to remember the "commands" needed
Keyboard/typing often not needed
Often "language free"/uses icons rather than words/intuitive
Can customise
Any 1 x 1 mark **1 mark**
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