



General Certificate of Secondary Education

Information and Communication Technology 3527 *Specification A*

3527/F Short Course (Foundation Tier)

Mark Scheme

2005 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.	C	Correct Answer Only	1 mark
2.	A	Correct Answer Only	1 mark
3.	D	Correct Answer Only	1 mark
4.	D and E	Correct Answers Only (2x1)	2 marks
5.	A, B and F	Correct Answer Only (3x1)	3 marks
6.	A	Correct Answer Only	1 mark

Total 9 marks

7 (a)	Input	Correct Answer only	1 mark
	Storage	Correct Answer only	1 mark
	Output	Correct Answer only	1 mark
	Input	Correct Answer only	1 mark
	Output	Correct Answer only	1 mark
	Input	Correct Answer only	1 mark
	Output	Correct Answer only	1 mark

(b) Accept answers that are reasonably close/can easily be interpreted as, even if spelt wrongly. Ignore capitals/lower case

graphics digitiser concept Keyboard
 keyboard light Pen
 joystick bar code reader
 sensor graphics tablet
 touch screens/pad microphone
 OCR – Optical Character Recognition (reader)
 OMR – Optical Mark Recognition (reader)
 MICR – Magnetic Ink Character Recognition (reader)

Any 1 X 1 mark (1)

(c) dot-matrix printer
 actuator
 monitor/screen (VDU) motor
 lights

Any 1 X 1 mark (1)

- | | | | |
|-----|----------------------------------|-------|--------------|
| (d) | CD-ROM | CD-RW | EPROM |
| | DVD ROM | CD-R | PROM |
| | DVD Ram | RAM | MP3 (player) |
| | hard disk | ROM | |
| | USB drive/memory stick/pen drive | | |

Not just the letters CD or DVD

Any X 1 mark

(1)

Total 10 marks

8.Ignore any leading OPEN

Accept CLOSE for 1 mark even the command(s) are wrong

Part A

DOWN 3 **Correct answer only** **1 mark**

CLOSE **Correct answer only** **1 mark**

Mark independently

(CLOSE ends this section)

Part B – look for

UP 3 **Correct answer only** **1 mark**

RIGHT 14 **Correct answer only** **1 mark**

DOWN 4

OPEN **Correct answer only** **1 mark**

UP 4

LEFT 14 **Correct answer only** **1 mark**

NB – stop at first ERROR

Ignore obvious spelling errors, incorrect case and spacing

If all along one line then accept (e.g. DOWN 3 CLOSE, etc)

Allow labelled instructions

Deduct 1 mark for use of consistent abbreviations throughout (e.g. RT – RIGHT)

Deduct 1 mark for use of units (e.g. cm or units)

OR deduct one mark for repeat of whole instruction

Max deduct is 1 mark

SPECIAL CASE

Part B could contain a version that works not using the commands from the list.

This will be given either 2 marks for totally correct or 0 marks

AND stop at first mistake as before (wrong move)

Total 6 marks

**9. Items need not be in the order given below (but must be grouped as given)
Headings Ok but not needed for the marks**

(a) General details – all there and grouped (5 items) 1 mark

Allow Lancre Playgroup Summer Fair as a discrete title (even if separate)

- ignore spelling mistakes, capitals & wrong tel no.
- ok, with or without the words Date, Where etc.
- does not need title General Details or other headings
- Telephone number OK without Lancre

Date/Where - correct date and spelling (see above) 1 mark

Admission details - all there and grouped (3 items) 1 mark
- ignore spelling mistakes, capitals
- prices **all correct**

Stall details – all there and grouped (7 items) 1 mark
- ignore spelling mistakes, capitals

Other attractions details - all there and grouped (3 items) 1 mark
- ignore spelling mistakes, capitals

Sub total 5 marks

.....
(b) The indication must be clear to get the mark.

- An arrow pointing at where the feature would be used
- Written right next to the feature /place to be used
- Written in words as to where the feature will be used

**Large & bold font – indicate any of the following:-
headings/date/where/time/price/tel no/Title 1 mark**

**Coloured text – indicate any of the following:-
- could be a repeat of above
headings/date/where/time/price/tel no. any ‘block of details’
1 mark**

**Importing clip-art - must say what the picture is / be a clear relevant picture
(not just the word picture) 1 mark**
-one picture is enough (sensible picture – accept most)
- some indication of the position if not drawn

Sub total 3 marks

(c) Allow repeat reason for 2 but NOT 3 of the following:-

Large bold font - reason for large bold title

1 mark

- Can be easily read
- Looks more attractive/eye-catching/appealing
- Looks more professional
- Makes text stand out/grabs peoples attention

Coloured text - reason for coloured text

1 mark

- Looks more attractive/eye-catching/appealing
- Looks more professional
- Makes text stand out/grabs peoples attention

Importing clip-art - reason for use of clip-art

1 mark

- Looks more attractive/eye-catching/appealing
- Professional
- Interesting/less boring
- Grabs peoples attention
- Shows people what is happening

Sub total 3 marks

10 (a) C6

Correct answer only

1 mark

(b) (i) Currency

Correct answer only

1 mark

(ii) Number

Correct answer only

1 mark

(iii) Formulae

Correct answer only

1 mark

(c) Time can be saved by replication of formulae **CAO 1 mark**

Changes are automatically re-calculated in totals **CAO 1 mark**

Total 6 marks

(d) Cost of buying the software

More time to set up

Hardware or software problems stop access to the spreadsheet

Training needed/ some people cannot use computers

Breakdown/viruses

Is not easily portable

hacking

NOT accidental deletion or just **COST**

NOT disadvantages that apply to calculators

Any 1 x 1 mark

1 mark

Sub total 1 mark

11	(i)	Implementation	Correct answer only	1 mark
	(ii)	Analysis	Correct answer only	1 mark
	(iii)	Testing	Correct answer only	1 mark
	(iv)	Design	Correct answer only	1 mark
	(v)	Design	Correct answer only	1 mark
	(vi)	Evaluation	Correct answer only	1 mark
	(vii)	Design	Correct answer only	1 mark

Total 7 marks

12	Title	at least 3
	Surname	at least 10
	First name	at least 10
	Other names	at least 10

(Name and 20 boxes for one tick only)

NOTE MAX THREE FOR NAME

Street/house no- Address line 1	at least 10
Town/Area/County -Address line 2 (address – instead of above)	at least 10 at least 20/memo/or 2x10

NOTE MAX TWO FOR ADDRESS LINES

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

Post code/zip code	at least 7/ 3 space 3
Telephone number (day)	at least 11
Telephone number (evening)	at least 11
Contact tel. 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(sensible splits)
Gender	at least 6 or clear coding
Photo	box to fit
Type of membership	at least 10 or clear choices
Date of membership/expiry of membership	at least 8(2-2-2/4)

NB – could use the date at end of form

DOB	at least 8(2-2-2/4)
Medical details	at least 20 or memo
Bank details – max 1/method of payment	at least 8
Signature	Memo

NOT NI - Not doctor, not doctor's address etc.

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 8 fields

Ignore correct duplicate fields e.g. 3rd telephone number – these do not count in the EIGHT (i.e. Look at the first 9)

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 8 marks

Sub total 8 marks

13(a)

Information should be accurate and up-to-date.

CAO 1 mark

Information should be kept secure.

CAO 1 mark

Information should be relevant and not excessive for the purpose.

CAO 1 mark

Information should never be kept longer than necessary.

CAO 1 mark

Information should not be transferred outside of the (E.U.) European Union. **CAO 1 mark**

Total 5 marks

(b)

- Right to see the data about themselves/be given a copy
- Right to have wrong data corrected/deleted
- Right to seek compensation for damage caused by inaccurate data
- Prevent the processing if it is likely to cause damage or distress
- Prevent data being used for direct marketing
- Prevent automatic decisions being made on the basis of data held
- Make a request to the Data Protection commissioner if Act contravened

1 mark per correct answer x 2

(2)

Sub total 2 marks

(c) Passwords

Level of access

Encryption

Physical security – max 1 (locks, pass cards, security guards!!!)

1 mark per correct answer x 2

(2)

Sub total 2 marks

14.	sensor	Correct answer only	1 mark
	data logging	Correct answer only	1 mark
	period of logging	Correct answer only	1 mark
	logging interval	Correct answer only	1 mark
	calibrate	Correct answer only	1 mark
	feedback	Correct answer only	1 mark
			Total 6 mark

- 15 (a)
- The information is more likely to be up to date. (allow updated)
 - May not be able to take the books home.
 - Research could include sound or video clips
 - Could be many more (sources)of information.
 - May be more fun/motivating to “do the research”
 - Could use search engines to find specific information (quicker to find/faster to search/more efficient to search)
 - Use chat lines to ask questions
 - Several languages
 - Books can be lost or damaged
 - Get printouts
 - Export to other documents
- NOT faster to look for or faster to find**
Any 2 x 1 mark
- (2)**
Sub total 2 marks
- (b) **Load (or equivalent)** a suitable search engine e.g. Google/Jeeves etc.
(not just search engine – in question)
Type in suitable search criteria/words/what you are looking for
Review finds for the most likely/suitable hits
Refine search as needed
Any 2 x 1 mark
- (2)**
Sub total 2 marks

(c)

- Can take the book anywhere
- Much more likely to be sure of the source of the information.
- Access to the internet may be interrupted
- Access to the internet costs money
- Computer might breakdown/not available/not enough computers
- Not computer literate
- Know exactly which book the info is in/ specific book
- Habit/like books/known the system

NOT just “easier to use”

Any 2 x 1 mark

(2)

Sub total 2 marks

(d)

Teletext (or similar)
CD-ROM – allow named CD-ROM eg Encarta
Allow other text eg magazine
Allow CD or video (clip)

Any 1 x 1 mark

(1)

Sub total 1 mark