



ASSESSMENT and
QUALIFICATIONS
ALLIANCE

Mark scheme

June 2003

GCSE

Information and Communication Technology A

Full Course 3521 Foundation

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Answers to multiple choice questions

- | | | | | |
|----|---|---|---------------------|-----|
| 1. | B | C | Correct answer only | (2) |
| 2. | B | | Correct answer only | (1) |
| 3. | B | D | Correct answer only | (2) |
| 4. | C | | Correct answer only | (1) |
| 5. | B | | Correct answer only | (1) |

Words instead of letters is OK (if correct)

Total 7 marks

6. Answers to IN/OUT/storage question

- | | | | | |
|-----|--------------------|-------|---------------------|-----|
| (a) | Graphics digitiser | | | |
| | Keyboard | | | |
| | Light Pen | | | |
| | Mouse | | | |
| | Sensor | | | |
| | | Any 4 | Correct answer only | (4) |
| (b) | Laser Printer | | | |
| | Plotter | | | |
| | Monitor | | | |
| | Speaker | | | |
| | | Any 3 | Correct answer only | (3) |
| (c) | CD-ROM | | | |
| | DVD ROM | | | |
| | DVD RAM | | | |
| | Hard disc | Any 2 | Correct answer only | (2) |

Total 9 marks

7. Answers to DTP question

(a)

- Picture/clipart/image/graphic/logo added
- Title/font/text made bigger/enlarged
- (Title/font/text) made bold/underline/italic (max 2)
- (Text) centred
- Bullet points /indent/tab made
- Text font changed/Wordart used
- Border/borderart added

WRITING NOT GIVEN**Any 5 for 1 mark each (5)**

(b)

- Change font **name ie Times Roman** (if not above)
- Coloured text/font/title could be used
- Coloured/shaded background could be used
- Coloured border (Max 2 for colour)
- Text right/fully justify
- Change the line spacing
- Use numbering instead of bullet points
- Layering/watermark
- Add table
- Change orientation

NOT more of ie add more pictures
NO REPEATS of the changes already made.
Not just move things around.

WRITING NOT GIVEN

Any 2 for 1 mark each (2)

Total 7 marks

8. Answers to data capture form question

Membership Number or equivalent	at least 5
Title	at least 3 (or coded)
Surname	at least 10
First name	at least 10
Name (for one mark)	at least 20
Sex	at least 6 (or coded)
DOB (not age)	at least 8 (or coded)
Number (house)	at least 3
Street - Address line 1	at least 10
Town/Area/County -Address line 2 (address – instead of above – 1 mark)	at least 10 at least 20/memo/or 2x10

NOTE MAX TWO FOR ADDRESS LINES ABOVE

Postcode at least 7 (3 space 3)

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

Telephone number (day)	at least 11
Telephone number (evening)	at least 11
Contact tel. Number	at least 11
Mobile tel. Number	at least 11
Emergency tel. Number	at least 11

NOTE MAX TWO TELEPHONE NUMBERS

Emergency contact name	at least 14
Fax number	at least 11
E-mail address	at least 20(sensible splits)
Photo	box to fit
Medical conditions/allergies/medication	at least 20/memo
Classes attended	at least 10
Date of membership/expiry of membership	at least 8(2-2-2/4)
NB – could use the date at end of form	
Type of membership	at least 6
Fee paid/subs – 1 only for subs	at least 6

NOT NI - Not doctor, not doctor's address/next of kin

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 5 fields

Ignore correct duplicate fields eg. 3rd telephone number – these do not count in the FIVE

Tick correct field name – do not penalise lack of capitals

Tick correct number of boxes/memo for corresponding field name.

Count ticks - divide by 2 - round down

If code is a list that is “open” then “others” needed.

Total 5 marks

9. Answers to data logging/data capture question

data logging	Correct answer only	(1)
MICR	Correct answer only	(1)
magnetic strips	Correct answer only	(1)
feedback	Correct answer only	(1)
OCR	Correct answer only	(1)
calibration	Correct answer only	(1)

Ignore capitals and poor spelling

Total 6 marks

10. Answers to Data Protection Act question**Given**

A: Data is obtained for specified and lawful purposes.

B: Data is accurate and up-to-date.

C: Data where national security is concerned.

D: Data is never to be given to anyone.

E: Data must not be more than six months old.

F: Data held on individuals must be sent to them on request.

G: Data can be prevented from being used for direct marketing.

H: Data that individuals want removed from their record must be removed immediately.

I: Data is not to be transferred outside the UK

J: Data is to be kept secure against loss, damage or unauthorised processing.

K: Data used for health, education and social work.

- (a) A: Data is obtained for specified and lawful purposes.
 B: Data is accurate and up-to-date.
 F: Data held on individuals must be sent to them on request.
 J : Data is to be kept secure against loss, damage or unauthorised processing.

Letter or words OK

3 × 1 mark Correct answers only (3)

- (b) F: Can ask for and must be given a copy of data held about them.
 G: Can prevent data from being used for direct marketing.

Letter or words OK

Correct answers only (2)

- (c) C: Data where national security if concerned.
 K: Where data is used for health, education and social work.

2 × 1 mark Correct answers only (2)

Total 7 marks

11. Answers to decorating spreadsheet questions

- (a) **B7** Correct answers only **(1)**
- (b)(i) number Correct answers only **(1)**
- (ii) text Correct answers only **(1)**
- (c) (i) (=)B3*C3 **(1)**
NOT 3B or 3C = at end mark wrong must be * not x
Allow the use of (=)sum()
Allow D3=B3*C3
- (ii) (=)Sum(D3:D16) Range could be D1-D17 (must inc. D3 to D16)
D3+D4+D5+D6+D7+D8+D9+D10+D11+D12+D13+D14+D15+D16 is ok
(1)

If the whole centre has a different separator – ring team leader

- (d) Reduce the number of **(1)**
Reduce to zero is fine
Don't buy a carpet is fine (or similar)
Reduce cost of
Must be reducing
- Second mark is for the check**
That the total keeps within £550/within budget **(1)**

Total 7 marks

12. Answers to database questions

- | | | | |
|---------|---|----------------------------|------------|
| (a) | 8 | Correct answer only | (1) |
| (b) | 7 (allow 56) | Correct answer only | (1) |
| (c) (i) | Sex OR Date of Birth OR Tutor Group
(ignore capitals/spelling) | Correct answer only | (1) |
| (ii) | Faster to type
Less storage needed | Any 2 × 1 mark each | (2) |
| (d)(i) | Pupil Number | Correct answer only | (1) |
| (ii) | Unique identifying field (or similar) | | (1) |
| (e)(i) | 16-04-99 or equivalent – clearly identifies the error | | (1) |
| (ii) | This is outside of the range of dates for year 7 pupils
Too young (for school)
All the other 90 or 91 | | (1) |
| (f) | Set up a range check on Date of Birth | | (1) |
| | Error signalled for such a DOB – outside the range | | (1) |

Total 11 marks

13. Answers to health and safety question

- (a) Epilepsy (trigger)
Eye strain/headaches
Repetitive strain injury (RSI) – pains in arms, wrists and fingers
Bad backs
Exposure to radiation
Stress

Any 2 × 1 mark

(2)

MUST RELATE to their answer but could be implied rather than explicit.

If more than two answers – mark the first two.

Not obesity

- (b) **Eye strain**
Free eye tests
Screens kept free from flicker/regular refresh
Reduce reflected light/glare – “matt” systems
Bright lighting (reduce contrast between VDU and surrounding light)
Ability to change the angle of the screen
Ability to adjust the screen brightness and contrast
Close curtains/blinds
Look away from the screen to another object
Take a break/do something different

Repetitive strain injury (RSI) – pains in arms, wrists and fingers

- Concave-shaped keys
Keyboard lies flat or be at an angle of up to 10 degrees
Separate from VDU so the user can adjust
Take a break/do something different

Bad backs

- Chairs designed to swivel
Chairs have adjust back support/height
Operators not to work too long without a break (allows change in posture)
Use a foot rest

Exposure to radiation

- Use shield to protect from radiation
Have equipment checked regularly

Any 2 × 1 for chosen danger

(2)

Total 4 marks

14. Answers to applications software question

- | | | | |
|-----|---------------------|---------------------|-----|
| (a) | Communications | Correct answer only | (1) |
| (b) | Mail-merging | Correct answer only | (1) |
| (c) | Word processing | Correct answer only | (1) |
| (d) | Spreadsheet | Correct answer only | (1) |
| (e) | Data Logging | Correct answer only | (1) |
| (f) | Database | Correct answer only | (1) |
| (g) | Desk top publishing | Correct answer only | (1) |

Total 7 marks**15. Answers to user interface software question**

- | | | | |
|---------|--|-----------------------|------------|
| (a) | Menu (driven)
Graphical interface/GUI | Any 2 × 1 mark | (2) |
| (b) | A consistency of layout | Correct answer only | (1) |
| | A consistency of text style | Correct answer only | (1) |
| | The use of sound | Correct answer only | (1) |
| (c) (i) | text/image/word/sentence which provides links to other pages (in an information store) | | (1) |
| (ii) | An area (look for as the mouse moves) which displays further information or provides links to other pages (in an information store) | | (1) |

Total 7 marks

16. Answers to operating system question

- (a) Group of **programs/program/software**
that control
the **overall operation** of of a computer
Any 2 × 1 mark (2)
- (b) Software
Correct answer only **(1)**
- (c) Manages system resources including memory
Manages the allocation of CPU time
Manages the system security
Correct answer only **(1)**
Correct answer only **(1)**
Correct answer only **(1)**
- (d) Multi-user
Multi-programming/tasking
Real time
Batch Processing
Transaction processing
Windows/Unix/DOS (max 1 mark)
NOT network
Any 2 × 1 mark (2)

Total 8 marks