

ASSESSMENT and QUALIFICATIONS ALLIANCE

# Mark scheme June 2003

## GCSE

### Information and Communication Technology A

### Short Course 3527 Foundation

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The Assessment and Qualifications Alliance (AQA) is a company limited by guarantee registered in England and Wales 3644723 and a registered charity number 1073334 Registered address: Addleshaw Booth & Co., Sovereign House, PO Box 8, Sovereign Street, Leeds LS1 1HQ Kathleen Tattersall: *Director General*  Answers to multiple choice questions

Answers to multiple enoice questions					
1.	B	С		Correct answer only	(2)
2.	B			Correct answer only	(1)
3.	B	D		Correct answer only	(2)
4.	С			Correct answer only	(1)
5.	B			Correct answer only	(1)
Words	inst	tead of letters is OF	K (if correct)		
					Total 7 marks
			· · · · · · · · · · · · · · · · · · ·		
o. Ans	wer	s to IN/OUT/stora	age question		
(a)	(a) Graphics digitiser				
	Keyboard				
		Light Pen			
		Mouse			
		Joystick			
			Any 4	Correct answer only	(4)
(b)	)	Laser Printer			
		Plotter			
		Monitor			
		Speaker			
			Any 3	Correct answer only	(3)
(c)	1	CD-ROM			
		RAM			
		Hard disc	Any 2	Correct answer only	(2)
Igr	nore	spelling mistakes			

Total 9 marks

#### 7. Answers to DTP question

#### (a)

Can use

heading

- Picture/clipart/image/graphic/logo added •
- Title/font/text made bigger/enlarged •
- (Title/font/text) made bold/underline/italic (max 2) •
  - (Text) centred **NOT** middle
  - Bullet points /indent/tab made •
  - Text font changed/Wordart used/Shading/Shadow •
  - Border/borderart added NOT frame •

#### WRITING NOT GIVEN

•

#### Any 5 for 1 mark each (5)

#### (b)

Change font name ie Times Roman (if not above) ٠ Coloured picture/image/graphic • Coloured text/font/title could be used **NOT** word • COLOUR Coloured/shaded/decorated background could be used • 1 mark • Coloured border (max 2 for colour) • Text right/fully justify • Change the line/text/letter spacing Use numbering instead of bullet points • Layering/watermark/wrapping text • • Add table Change orientation/rotation of text •

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

> > Any 2 for 1 mark each (2)

**Total 7 marks** 

Just

#### 8. 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

 $3 \times 1$  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.  $2 \times 1 \text{ mark}$  Correct answers only

**Total 7 marks** 

(2)

#### 9. Answers to data capture form question

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9. Answers to data capture form question		
Membership Number or equivalent	at least 5	
Type of membership	at least 6 (or coded but	
	needs OTHER)	
Title	at least 3 (or coded)	
Surname	at least 10	
First name	at least 10 at least 20	
Name (for one mark)		
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	at least 10	
(address – instead of above – 1 mark)	at least 20/memo/or $2 \times 10$	
NOTE MAX TWO FOR ADDRESS LI	NES (excluding postcode)	
Postcode	at least 7 (or 3 space 3)	
If Address 1 and street are mixed up – usua	ally gains one mark	
Telephone number (day)	at least 11	
Telephone number (evening)	at least 11	
Contact tel. Number	at least 11 at least 11 at least 11	
Mobile tel. Number		
Emergency tel. Number		
NOTE MAX TWO TELEPHONE NUN	<b>IBERS</b>	
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	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		
Fee paid/subs	at least 6	
NOT NI - Not doctor, not doctor's address etc.		
Boxes only unless memo specified		
[] – open boxes are OK – boxes with small v	ertical lines are OK but	
dashes are NOT.		
Memo = lines/boxes/dashes	<b>IGNORE FILLING IN</b>	
Mark only the first 8 fields		
Ignore correct duplicate fields eg. 3 <sup>rd</sup> telephon	e number – these do not	

Ignore correct duplicate fields eg.  $3^{rd}$  telephone number – these do not count in the EIGHT.

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

**Total 8 marks** 

#### 10. Answers to simulation question

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(a)	Less dangerous/safer(to the firemen and those around)/environmentally better Cheaper than replacing/repairing damage fire engines/not using fuel Not just cheaper Can vary conditions at will/try out different situations/repeat many times. Illegal to speed on roads <b>NOT</b> more confidence <b>Any 2 ×1 mark(2)</b>			
(b)	It takes longer to stop on wet roads rather than on dry roads	s CAO	(1)	
	How visibility will change in foggy conditions.	CAO	(1)	
	The maximum speed of the fire engine	CAO	(1)	
(c)	Flying a plane/training pilots/landing planes/rockets/helicop Conditions in a nuclear reactor/chemical plants/power station Military/firearms training/combat/bomb disposal Games/ride simulators Disaster planning/emergencies Design simulations e.g. building, bridges, cars Training doctors/surgeons Psychological Training (Phobias/fears) Sports simulations <b>NOT just the word entertainment</b>	-		
	Any 2 × 1	mark	(2)	

Total 7 marks

#### 11. Answers to decorating spreadsheet questions

AQA

	(a)	<b>B</b> 7	Correct answers only	(1)			
	(b)(i)	number/currency	Correct answers only	(1)			
	(ii)	text	Correct answers only	(1)			
		(=)B3*C3 NOT 3B or 3C = at end mark wrong Allow the use of (=)sum() Allow D3=B3*C3	must be * not >	< <b>(1)</b>			
	(ii)	(=)Sum(D3:D16) Range could be or Sum(D3D16)	e 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 Reduce to zero is fine Don't buy a carpet is fine (or si Reduce cost of <b>Must be reducing</b> Use Goal Seek <b>Second mark is for the check</b> That the total keeps within £55	milar) <b>NOT</b> change	(1) D18 (1)			
				Total 7 marks			
12. Aı	nswers to	o data/information question					
(a)	Data h	as no context/ meaning/sense		1 mark			

(a)	Data has no context/ meaning/sense Information has context/ meaning/sens Could give clear examples not given NOT INPUT/OUTPUT	1 mark 1 mark	
(b)	Information	Correct answer only	1 mark
	Data	Correct answer only	1 mark
	Information	Correct answer only	1 mark

**Total 5 marks** 

#### 13. Answers to data logging/data capture question

data logging	Correct answer only	(1)
feedback	Correct answer only	(1)
OCR	Correct answer only	(1)
calibration	Correct answer only	(1)

#### Ignore capitals and poor spelling

#### 14. Answers to health and safety question

Epilepsy (trigger) Eye problems/ eye strain/headaches Repetitive strain injury (RSI) – pains in arms, wrists and fingers Bad backs/necks Exposure to radiation/danger in pregnancy Stress NOT arthritis/obesity/addiction Any 2 × 1 mark

MUST RELATE to their answer but could be implied rather than explicit. If more than two answers – mark the first two.

#### (b) Eye strain

(a)

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** 

#### **Total 4 marks**

(2)

#### 15. Answers to database questions

(a)	8		Correct answer only	(1)	
(b)	7 (allow 56)		Correct answer only	(1)	
(c)(i)	Pupil Number		Correct answer only	(1)	
(ii)	Unique identifying field (or sim	ilar) showing re	trieval of exact record	(1)	
(d)(i)	16-04-99 or equivalent – clearly	y identifies the e	rror	(1)	
(ii)	This is outside of the range of d Too young (for school) All the other 90 or 91	(1)			
(iii)	(1)				
	Error signalled for such a DOB won't let you move on	- outside the rai	nge/stop it being entered/	(1)	
				Total marks 8	3
16. An	swersto charts/Web design que	estion			
(a)Construction pie charts from tables of data Produce labels and axes, legends and headings Edit the number scales on the axes			Correct answer only Correct answer only Correct answer only	(1) (1) (1)	
(b)(i)	<b>text/image/word/sentence/picture/object</b> which provides links to other pages (in an information store) (1)				
(ii) An <b>area</b> which displays further information/provides links to other pages (in an int				,	
	NOT Spot			(1)	
(c)	Add/delete pages Set upstyles/house styles Change links Look at/edit HTML Add a counter for counting hits Allow DTP features (max 1 mat		Any 2 × 1 mark	(2)	
	Not answers given above eg. not hyperlink/hotspot - not a				

Total 7 marks

