6-A-Day – Computer Science GCSE (22)

Q1	Example:
	
	``
	i = 1
	total = 0
	REPEAT
	    total = total + Coins(i)
	    i = i + 1
	UNTIL i>10 or Coins(i)=0
	``
	OR:
	
	``
	total = 0
	FOR i = 1 to 10
	    total = total + Coins(i)
	NEXT i
	``
	
	Award marks for:
	• Initialising the total
	• (Using a loop which) correctly starts from element 1
	• ... to element 10 / to the first 0 element
	• ... each element is correctly added to the total
	• ... the iterator i (or equivalent) is correctly updated in the loop.
	
	Note that the FOR loop meets the requirements of bullets 2,3 and 5.
	
	If a candidate makes a sequence of 10 assignments they can get maximum of 4 marks (for bullets 1,2,3,4).
		5

Q2	• Bus	1
Q3	• Router / Modem / ADSL adapter	1

| Q4 | Points may include:

- The school should take reasonable steps to ensure that only authorised people can access pupils' personal data
- ... ensure school network is safe from hackers eg strong passwords/firewalls
- ... expressly seek permission from the pupil to pass data to third parties (eg when providing references)
- Any images in which students can be identified cannot be used without students'/parents' permission
- ... to comply with child protection legislation

accept answers about any relevant areas of legislation (eg data protection, freedom of information, child protection, copyright and licensing etc) | 6 | **High Level Response (5-6):** A detailed explanation of different measures the school will take to address legal issues, clearly identifying the issues. There will be few if any errors in spelling, grammar and punctuation. Technical terms will be used appropriately and correctly.

Medium Level Response (3-4) A limited explanation of some measures the school will take with some reference to legal issues. There may be occasional errors in spelling, grammar and punctuation. Technical terms will be mainly correct.

Low Level Response (0-2): They may be an attempt to state some measures or identify some legal issues. Information will be poorly expressed and there will be a limited, if any, use of technical terms. Errors of grammar, punctuation and spelling may be intrusive. |

Q5

	image file	sound file	video file
AVI			✓
BMP	✓		
JPG	✓		
MP3		✓	

(one mark per row)

4

Q6

0011 0111
(1 mark per nibble)

2