## 6-A-Day – Computer Science GCSE (17)

Q1	Example:  BEGIN  Input RealAge  IF RealAge <= 2  DogYears = RealAge * 12  ELSE  ExtraYears = RealAge - 2  DogYears = 24 + ExtraYears * 6  END IF  END  Award marks for an algorithm which:  Allows real age to be input  If age <= 2, multiply real age by 12  If age > 2  Works out extra years (real age - 2)  multiply by 6  madds 24 (for the first 2 years)		[5]	
Q2	A 1-page text document: Kilobyte(s)     A 10-min movie clip: Megabyte(s)     A person's surname: Byte(s)  Allow abbreviations			
Q3	The internet is the same as the World-Wide Web The internet is a Local Area Network The internet is a network between many networks  One mark per correct row	TRUE	FALSE ✓	3

Q4 High Level Response (5/6): A good understanding with detailed descriptions of the measures and policies, explaining how they help privacy and security; The information will be presented in a structured and coherent form. 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); some appropriate measures and policies with weak descriptions; The information will be presented in a structured format. There may be occasional errors in spelling, grammar and punctuation. Technical terms will be mainly correct. Low level response (0/2): There may be some measures and policies mentioned but descriptions are incomplete or may contain inaccuracies; 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. Points may include: Physical security measures – computers/servers in locked rooms, lock down cables for laptops Firewalls – allow only authorised access to the network / only authorised users/programs to share data out of the network User groups/access levels – different users are given rights to different data according their responsibility/need to protect privacy Passwords enforced. Should be strong and changed regularly. Ensures privacy and protects files being accessed by malicious hackers Encryption of data on network WiFi access security if they use WiFi Get employees to sign an acceptable use policy as part of their contract to ensure they do not put the data at risk of corruption/abide by data protection [6] legislation/do not give the data to third parties etc. Q5 5 Must be Need not be included included The names of the people in the picture The width of the picture in pixels The number of bits used for each pixel The number of people in the picture The colour of each pixel 1 mark per correct row Q6 1 The concentration of pixels Not just the number of pixels or picture quality