6-A-Day – Computer Science GCSE (36)

Q1	Explain the legal issues that the school should consider when choosing the software for managing pupils' attendance and examinations. The quality of written communication will be assessed in your answer to this question. .... [6]
Q2	Describe what is meant by a Local Area Network (LAN). .... [2]
Q3	A computer has 1024 megabytes of RAM. (a) How many gigabytes of RAM does the computer have? .... [1]

Q4	An isosceles triangle is a triangle that has at least two equal sides. The diagram below shows examples of isosceles triangles. In each diagram the marked sides are equal.

Write an algorithm for a computer program that determines whether a triangle is an isosceles triangle.

- The user inputs the lengths of the three sides as Length1, Length2 and Length3
- If any two sides have the same length the program outputs "Isosceles"
- Otherwise the program outputs "Not Isosceles"

....

....

....

....

....

....

....

....

....

.... **[5]**

Q5	Add the following two 8-bit binary numbers.

1	0	0	1	1	0	1	1
0	1	0	1	0	1	0	0

[2]

Q6	An overflow error can occur when adding two 8-bit binary numbers.

Describe what is meant by an overflow error.

....

....

....

.... **[2]**