## 6-A-Day – Computer Science GCSE (25)

Q1	Describe the features of a DBMS that can be used to create customised data handling applications and explain why using a DBMS is desirable.
	The quality of written communication will be assessed in your answer to this question.
	[6]
Q2	A games developer is developing an online game that can be played on games consoles, desktop computers or mobile phones.
	(a) The program is written in high-level code and then translated to machine code.
	Describe two differences between high-level code and machine code.  1
	2
	[4]
Q3	State the name of a different type of translator, other than an interpreter, which can be used to translate high-level code to machine code.
	[1]

Q4	A taxi uses a computer to communicate with central office and to calculate customers' fares.
	(a) The program in the computer uses sequence, selection and iteration.
	State whether the operations below use sequence, selection or iteration.
	Performing a series of different set-up operations when the computer is switched on.
	Beeping repeatedly after a message is sent, until the driver presses a button to show that the message has been read.
	Deciding whether to use the DayTimeRate or the EveningRate functions to calculate a customer's fare.
	[3]
Q5	(b) The computer measures the distance travelled as a real number and then rounds it up to the next integer.
	State what is meant by
	a real number
	an integer
	[2]
Q6	The following symbols are used to create logic circuits.
	AND OR NOT
	Complete the following logic circuit by filling in the blanks. The first one has been done for you.
	00
	0 1
	0