6-A-Day – Computer Science GCSE (40)

Q1	
3	Explain why people sometimes use hex numbers to represent numbers stored in computers, even though computers do not use hex numbers.
	[3]
Q2	Santos is writing a program that guesses the number of goals a team will score in a football match.
	The algorithm for his program is shown below:
	01 CONST Noise = 10
	02 INPUT Wins
	03 INPUT Losses
	04 Goals = 0
	05 Net = Wins - Losses
	06 WHILE Net > Noise
	07 Goals = Goals + 1
	08 Net = Net - Noise
	09 END WHILE
	10 OUTPUT Goals
	(a) State what is meant by a constant and give an example from the algorithm above.
	[2]
Q3	State what is meant by a variable and give an example from the algorithm above.
	[2]

Q4	State the number of goals that will be output by this algorithm for the following inputs. Explain how you obtained your answer in each case.
	Wins = 30 Losses = 25
	[2]
Q5	
	Wins = 20 Losses = 5
	[9]
	[3]
Q6	
	Define the term database.
	[41]
	[1]