6-A-Day – Computer Science GCSE (42)

Q1	A computer program calculates the correct dose in grams of a type of medicine.
	The algorithm used is shown by the flow diagram below.
	1985 NO 1985 NO 1987 N
	Dose = Dose * 0.5
	isPregnant = TRUE AND Dose > 1.5 The data type of the variable Age is Integer.
	YES NO State the data type of the following variables used in the flow diagram.
	Dose = 1.5 Variable Data Type
	Gender
	Dose
	END isPregnant [3]
Q2	Use the flow diagram to calculate the correct dose of medicine for a male aged 30.
	You must show your working.
Q3	
Q3	Use the flow diagram to calculate the correct dose of medicine for a pregnant female aged 19.
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Q4	Security on a computer can be provided directly by the operating system or by using	utility
	programs.	
	(a) Utility programs include antivirus, file transfer, firewall and system cleanup.	
	State which two of these utilities can be used for security.	
	1	
	2	
		[2]
Q5	Identify and describe two methods by which the operating system can provide additional security directly.	
	1	
	2	
	[4]	
Q6		
	Describe what is meant by	
	High level code	
		[2]
	High level code	
		[2]