6-A-Day – Computer Science GCSE (32)

Q1					
	Here Tick	are some statements about the CPU of a computer. one box in each row to show whether each of the following stater	ments is	true or fa	lse.
		Statement	True	False	
		CPU stands for Central Processing Unit.			
		The CPU fetches and decodes instructions.			
		The speed of a CPU is usually measured in GigaHertz (GHz).			
		If a CPU has many cores, this slows down the computer.			
		The hard disk drive is part of the CPU.			
					[5]
Q2		A game console and a desktop computer are two different types of con	nputer sys	stem.	
		Describe how a game console is similar to a desktop computer, with ref storage.	erence to	input, out	put and
		The quality of written communication will be assessed in your answer to	o this que	stion.	
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Ų	Si	tate the purpose of an input device in a computer system.			
	••				
					[1]

Q4	Convert the denary number 154 to binary.
Q5	Julie is writing a computer game that simulates a 100 m race. Each time the space bar is pressed, the position of the player moves up by 1. When the position reaches 100, the player has won. Here is Julie's algorithm for the program CONST PlayerKey = " " Position = 0 REPEAT INPUT KeyPressed If KeyPressed = PlayerKey THEN Position = Position + 1 END IF UNTIL Position = 100 (a) State an example of a constant and a variable in the algorithm above. Constant
	[2]
Q6	State what is meant by selection and iteration using examples from Julie's algorithm. Selection Example Iteration Example
	[4]