

6-A-Day – Computer Science GCSE (p1.1-2016)

Q1	It has more cores.	1 (AO2 1a)	Although Computer 1 has a lower clock speed than the CPU in Computer 2 it has more cores, which means that it can be faster than Computer 2. Any answer relating to splitting a program into processes that be carried out consecutively will be accepted.
Q2	RAM SSD HDD Graphics card (GPU)	2 (AO2 1a)	Marks can be awarded for other appropriate responses: E.g. Motherboard Sound card
Q3	<ul style="list-style-type: none"> • data is transferred faster (1)... • ...which makes a CPU more efficient (1) • It is faster to transfer to and from cache (1)... • ...than transferring to and from RAM (1). 	2 (AO2 1a)	1 mark to be awarded for each correct identification and 1 mark to be awarded for the associated explanation to a maximum of 2 marks.
Q4	<ul style="list-style-type: none"> • An instruction is fetched from memory • The instruction is then decoded • The decoded instruction is then executed so that the CPU performs continuously • The process is repeated • The program counter is incremented • The instruction is transferred to the MDR • The address of the instruction to be fetched is placed in the MAR 	4 (AO1 1a)	1 mark is to be awarded for each correct answer to a maximum of 4 marks.
Q5	<ul style="list-style-type: none"> • Long term/non-volatile storage of data/files • External/auxiliary storage of data 	1 (AO1 1a)	1 mark only to be awarded for a correct definition.
Q6	<ul style="list-style-type: none"> • Optical • Magnetic • Solid state 	3 (AO1 1a)	1 mark only to be awarded for each correct definition.