**Quiz 1 Marking Scheme**

**CPU Components**

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| **Question** | **Description** | **Marks** |
| **1a** | Any five from:  • Data fetched from RAM is stored in the MDR  • Data from MDR is sent to ALU to be executed  • ALU performs calculation and logical operations on data  • ALU has a built-in register ...  • ... where it stores interim results of calculations  • After calculations, ALU sends data to MDR  • Data is sent from MDR to be written to RAM | **5** |
| **b** | Any two from:  • it is built into a device  • it has a single purpose/limited/dedicated function  • it runs on firmware | **2** |
| **2** | h the following  This has a CPU in addition to some RAM and ROM and other peripherals all embedded onto one single chip  microcontrollers:  Integrated circuit which only has a CPU on the chip  microprocessor:  This may contain a microcontroller as one of its components  system on chips (SoC): | **3** |