**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 followingThis has a CPU in addition to some RAM and ROM and other peripherals all embedded onto one single chipmicrocontrollers: Integrated circuit which only has a CPU on the chip microprocessor: This may contain a microcontroller as one of its componentssystem on chips (SoC):  | **3** |