# End of Unit Quiz – Unit 1.1 Systems Architecture

1. What is the purpose of the CPU?

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1. What is the function of the CPU?

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1. What is meant by a register?

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1. What is the name and purpose of one register in the CPU?

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1. Tick one box in each row to show whether each component is part of the CPU.

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|  | **Part of the CPU** | **Not part of the CPU** |
| Cache |  |  |
| RAM |  |  |
| ALU |  |  |
| Control Unit |  |  |
| ROM |  |  |

**Use the following information to answer questions 6 -10**

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|  | **CPU 1** | **CPU 2** |
| Type | Quad Core | Dual Core |
| Clock Speed | 2.3 GHz | 3.1 GHz |
| Cache Size | 512 KB | 2 MB |
| Fitment | Socket 478 | Socket 775 |

1. Which processor has the fastest clock speed?

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1. What are the effects of using a processor with a faster clock speed?

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1. How many cores are in CPU 1?

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1. What are the effects of using a processor with more cores?

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1. Which CPU has the bigger cache?

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1. What are the effects of using a processor with a bigger cache?

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1. What is meant by an embedded system?

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1. What is the purpose of embedded systems?

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1. Provide three examples of embedded systems.

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1. What are the purposes of the following components in the CPU?
* ALU

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* Control Unit

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* Cache

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