Processor Architecture Questions

1. Draw and label the architecture of the main internal components of a computer including the buses, input output controllers, processor and main memory [12 marks]
2. Explain the role of main memory [2 marks]

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1. Explain the purpose of a bus and explain the difference between a control bus, data bus and address bus [4 marks]

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1. Explain the stored program concept [3 marks]

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1. Explain the difference between the Harvard and Von Neumann architectures [4 marks]

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1. What is the purpose of the opcode and operand part of a machine code instruction? [2 marks]

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1. What is the purpose of the address mode? [1 mark]

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1. Explain the difference between immediate and direct addressing mode. [1 mark]

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1. Discuss six factors that impact the performance of a processor [15 marks].

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