

2 A computer has a processor.

(a) The processor has a Control Unit (CU) and system clock.

(i) Explain how the CU and the system clock work together.

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(ii) The processor runs the Fetch-Execute (F-E) cycle.

Write the stages of the F-E cycle using register transfer notation.

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(b) The computer has cache memory.

Describe **one** benefit of the computer using cache memory.

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(c) The computer connects to a monitor using a High Definition Multimedia Interface (HDMI) cable that connects into an HDMI port.

Explain how HDMI provides connection to peripheral devices.

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