

Summative assessment questions

# Computer systems

## Multiple choice questions

| INP  STA A  OUT  HLT  A DAT |
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Q1. When the INP statement is run on the LMC, which component will hold the data that the user inputs?

A. RAM

B. Hard drive

C. Accumulator

D. MDR

Answer: .

Q2. What does the letter A represent in the command STA A ?

A. A register

B. A memory location

C. Data

D. A command

Answer: .

Q3. What does the line HLT do to the program?

A. Outputs the data in the accumulator

B. Branch it to the end of the program

C. Sets up a data location

D. Stops it

Answer: .

Q4. When the command STA A is executed, the data in the accumulator will be stored. Which device will it be stored on?

A. SSD

B. RAM

C. ROM

D. A register

Answer: .

## Text questions

Q1. What is the relationship between an assembly language and machine code?

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Q2. What is the ROM in a computer system used for?

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Q3. Complete the truth table for this logic gate.



| **A** | **B** | **C** |
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Q4. Which component of the CPU carries out mathematical operations?

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Q5. As described by von Neumann, what are the stages of the cycle that the processor undertakes for each instruction in a program?

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Q6A. Which type of storage uses light to read and write data?

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Q6B. Give an example device for the type of storage in Q6A.

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Q7. What characteristics make RAM unsuitable for long-term storage?

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Q8. What factors impact the performance of a CPU?

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Q9. Python is a high-level language. Name another example of a high-level language.

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Q10. Give an example of system software.

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Q11. Give two examples of embedded systems.

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