

Basic Computer Components

Due Feb 8 at 11:59pm**Points** 21**Questions** 17**Available** until Feb 10 at 11:59pm**Time Limit** None

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	195 minutes	18 out of 21

▲ Correct answers will be available Feb 10 at 11:59pm - Feb 13 at 11:59pm.

Score for this quiz: **18** out of 21

Submitted Feb 7 at 7:23pm

This attempt took 195 minutes.

Question 1

5 / 5 pts

Select the 5 classic computer components from the given dropdown lists:

[Select]	[Select]
[Select]	[Select]
[Select]	

Answer 1:

Control

Answer 2:

Datapath

Answer 3:

Memory

Answer 4:

Input

Answer 5:

Output

Question 2**1 / 1 pts**

The Control Unit or Controlling Circuitry is a processor component i.e. it is inside of the CPU.

☒ True

☐ False

Question 3**1 / 1 pts**

The Datapath is not a processor component i.e. it is found outside of the CPU

☐ True

☒ False

Question 4**1 / 1 pts**

In a microprocessor based system, the bulk of RAM is not contained within the CPU

☒ True

☐ False

Question 5**1 / 1 pts**

Program Counter counts the number of instructions that have been executed

☐ True

☒ False

Question 6**1 / 1 pts**

Instruction Pointer is another term which refers to the Program Counter

☒ True

☐ False

Question 7**1 / 1 pts**

The Program Counter is a special purpose register which is external to the CPU

☐ True

☒ False

Incorrect

Question 8**0 / 1 pts**

General Purpose Registers are accessible through high level language programming.

☒ True

☐ False

Question 9**1 / 1 pts**

Where in a computer do General Purpose Registers reside?

☒ In the CPU datapath

- ☐ In the CPU's timing circuitry
- ☐ Outside of the CPU
- ☐ In the CPU's Arithmetic Logic Unit

Question 10**1 / 1 pts**

Which of the following are general purpose registers for Intel Processors?

- ☒ ECX
- ☒ EAX
- ☐ CEX
- ☐ DEX
- ☐ EEX
- ☐ BEX
- ☐ AEX
- ☒ EBX
- ☒ EDX

Question 11**1 / 1 pts**

The ALU can perform operations like addition

- ☒ True
- ☐ False

Question 12**1 / 1 pts**

The ALU Can perform operations like load from RAM

☐ True☒ False**Question 13****1 / 1 pts**

The ALU Can perform Logic Operations like Exclusive OR

☒ True☐ False**Question 14****1 / 1 pts**

In the first stage of an instruction's processing (the instruction fetch [IF] stage) The instruction machine code is loaded into the processor.

☒ True☐ False**Question 15****1 / 1 pts**

In the instruction decode stage of an instruction's processing, the instruction machine code is is not decoded by the processor's circuitry.

☒ True☐ False

Incorrect

Question 16**0 / 1 pts**

Which of the following components could perform instruction decoding?

☒ Arithmetic Logic Unit☒ Control Unit☒ Program Counter☒ Instruction Pointer☐ Register File☐ Microcode Interpreter

Incorrect

Question 17**0 / 1 pts**

The primary CPU component needed for the Execute stage of an instructions processing is:

☐ The Arithmetic Logic Unit☐ The Instruction Pointer☐ The Control Unit☒ The Program CounterQuiz Score: **18** out of 21