Short Quiz | Introduction to Microprocessors and Intel 8086

- Due Oct 7 at 5pm
- Points 20
- Questions 20
- Available until Oct 7 at 5pm
- Time Limit 20 Minutes

Instructions

Let's see how much you have recalled on the Introduction to Microprocessors and Intel 8086. Choose the correct answer.

This quiz was locked Oct 7 at 5pm.

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	14 minutes	17.67 out of 20

> ⚠ Correct answers are hidden.

Score for this quiz: 17.67 out of 20
Submitted Oct 7 at 4:54pm
This attempt took 14 minutes.

Incorrect
⠿

Question 1
0 / 1 pts

If the instruction requires to write data to the memory, what will the CPU do first?

- ⊙ Fetch the next instruction.

- ○ Reads the data from the bus.

- ○ Puts the data on the bus.

○ None of the choices.

Question 2

1 / 1 pts

Which of the following unit of the Intel 8086 Microprocessor contains the Arithmetic and Logic Unit (ALU)?

○ Bus Interface Unit

◉ Execution Unit

Question 3

1 / 1 pts

A 16-bit microprocessor has:

○ 16-bit control bus

◉ 16-bit data bus

○ 16-bit instruction register

○ 16-bit instruction pointer

Question 4

1 / 1 pts

A type of microprocessor designed to process the analog signals into a digital form.

○ Analog to Digital Converter

◉ Digital Signal Processor

○ Symbolic Processors

○ Graphics Processor

Question 5

1 / 1 pts

Which of the following is the correct order of the operation of the CPU?

○ Decode-Fetch-Execute

○ Execute-Decode-Fetch

○ Fetch-Execute-Decode

◉ Fetch-Decode-Execute

Question 6

1 / 1 pts

The Intel 8086 is a _____ microprocessor.

- ◉ 16-bit
- ○ 8-bit
- ○ 64-bit
- ○ 32-bit

Question 7
1 / 1 pts

Which of the following is the co-inventor of the Integrated Circuit?

- ◉ Robert Noyce
- ○ Steve Jobs
- ○ William Sockley
- ○ John Bardeen

Question 8
1 / 1 pts

Which of the following devices William Shockley is credited inventing?

- ○ Thermistor
- ○ Integrated Circuit
- ○ Microprocessor
- ◉ Transistor

Partial

Question 9
0.67 / 1 pts

Match the components of the microprocessor on the left to its description on the right.

Control Unit

[Fetches and executes the instr ⌄]

Registers

[Stores the computer program. ⌄]

ALU

[Performs arithmetic and logica ⌄]

Question 10
1 / 1 pts

A silicon chip which includes an ALU, register circuits and control circuits.

- Amplifier
- Microcontroller
- Integrated Circuit
- Microprocessor

Question 11
1 / 1 pts

True or False: Pipelining is an architecture that allows simultaneous fetch and decode.

- True
- False

Question 12
1 / 1 pts

Which of the following CPU architecture requires more instructions to perform an operation?

- Complex Instruction Set Computer
- Reduced Instruction Set Computer

Question 13
0 / 1 pts

Which architecture utilizes less transistors?

- Reduced Instruction Set Computer
- Complex Instruction Set Computer

Question 14
1 / 1 pts

The Intel 4004 is...

- The first micrcontroller.
- The first graphics processor.
- The first microprocessor.
- The first integrated circuit.

Question 15

1 / 1 pts

Which of the following belongs to the fifth generation of microprocessors?

- ☑ AMD Ryzen 5
- ☐ Zilog Z80
- ☐ Intel 80486
- ☑ Intel Core i5

Question 16

1 / 1 pts

Which of the following connects the different components of the microprocessor?

- ○ Wire
- ◉ Bus
- ○ Registers
- ○ Train

Question 17

1 / 1 pts

In the basic bus system architecture, the connection of the memory and I/O are bi-directional. Choose the best statement explaining why.

- ○ Signal should flow in a bi-directional manner.
- ○ The CPU will send and recive control signals to the memory and I/O.
- ◉ CPU reads and writes data to memory and I/O.
- ○ None of the choices.

Question 18

1 / 1 pts

Match the CPU operation on the left to its description on the right.

Fetch

| Reads the instruction from the ▾ |

Decode

Identifies the operation to be p ▾

Execute

Performs data movement, arit ▾

Question 19
1 / 1 pts

True or False: The *von Neumann* architecture is the architecture where modern CPUs are based.

◉ True

○ False

Question 20
1 / 1 pts

True or False: The term "x86" was derived from the fact that it was developed in 1986.

○ True

◉ False

Quiz Score: 17.67 out of 20