

## 8085 Microprocessor Architecture – Lesson 1 Quiz

### Multiple Choice Questions (MCQs)

1. Which of the following is not a basic hardware block of a general-purpose computer?

- A) ALU
- B) Control Unit
- C) Compiler
- D) Memory Unit

Answer: C

2. The Control Unit is responsible for:

- A) Performing arithmetic operations
- B) Controlling the activities of other units
- C) Storing data
- D) Managing input/output only

Answer: B

3. The Arithmetic and Logic Unit (ALU) performs:

- A) Only arithmetic operations
- B) Only logic operations
- C) Both arithmetic and logic operations
- D) Control functions

Answer: C

4. The Memory Unit is used to:

- A) Perform calculations
- B) Store data and instructions
- C) Control peripheral devices
- D) Decode instructions

Answer: B

5. Which one is NOT an example of an input device?

- A) Keyboard

- B) Mouse
- C) Printer
- D) Scanner

Answer: C

6. System software includes:

- A) Operating System
- B) Word Processor
- C) Spreadsheet
- D) Database

Answer: A

7. Which of the following translates assembly language to machine code?

- A) Compiler
- B) Assembler
- C) Interpreter
- D) Linker

Answer: B

8. The Accumulator (A) in 8085 is used to:

- A) Store results of arithmetic and logic operations
- B) Control signals
- C) Store the program counter
- D) Manage interrupts

Answer: A

9. The size of the address bus in 8085 microprocessor is:

- A) 8-bit
- B) 12-bit
- C) 16-bit
- D) 32-bit

Answer: C

10. The 8085 microprocessor operates at a clock frequency of approximately:

- A) 1 MHz
- B) 2 MHz
- C) 3 MHz
- D) 4 MHz

Answer: C

### True / False Questions

11. The Control Unit performs arithmetic operations in the CPU.

Answer: False

ALU

12. The Flag Register in 8085 indicates the status of operations performed by ALU.

Answer: True

13. System software is designed for end users to perform daily tasks.

Answer: False

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14. The Program Counter (PC) in 8085 is a 16-bit register.

Answer: True

15. The 8085 microprocessor can address up to 64 KB of memory.

Answer: True