

# EE6502 Microprocessors and Microcontrollers

## Unit –I Part- A

1. What is Microprocessor? Give the power supply & clock frequency of 8085.

The microprocessor is a programmable device that takes in numbers, performs on them arithmetic or logical operations according to the program stored in memory and then produces other numbers as a result. It has 40 pins and uses +5V for power. It can run at a maximum frequency of 3 MHz.

2. State the use of RESET IN and RESET OUT pins of 8085 processor.

**RESET IN (Input)**

Reset sets the Program Counter to zero and resets the Interrupt Enable and HLDA flipflops. None of the other flags or registers (except the instruction register) are affected. The CPU is held in the reset condition as long as Reset is applied.

**RESET OUT (Output)**

Indicates CPU is being reset. Can be used as a system RESET. The signal is synchronized to the processor clock.

3. Mention the purpose of SID and SOD lines.

**SID (Input)**

Serial input data line. The data on this line is loaded into accumulator bit 7 whenever a RIM instruction is executed.

**SOD (Output)**

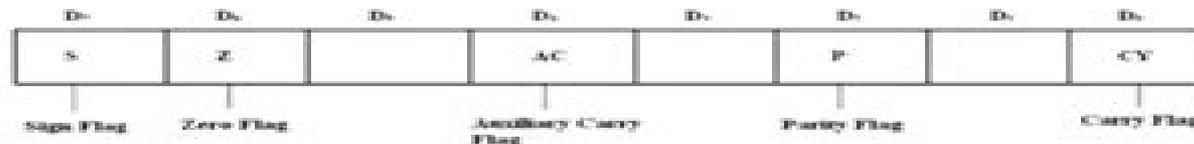
Serial output data line. The output SOD is set or reset as specified by the SIM instruction.

4. What are the functions of an accumulator?

The accumulator is an 8-bit register that is a part of arithmetic/logic unit (ALU). This register is used to store 8-bit data and to perform arithmetic and logical operations. The result of an operation is stored in the accumulator. The accumulator is also identified as register A.

5. What are the flags in 8085?

8 bit register –shows the status of the microprocessor before/after an operation–S (sign flag), Z (zero flag), AC (auxiliary carry flag), P (parity flag) & CY (carry flag)



# Microprocessors Questions Answers

**Victor M. Corman**



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