

**BCA Hons. Degree Part - I**

**Subject : IBM PC**

# **Topic - Microprocessor**

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# Microprocessor

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- ❑ Microprocessor is an electronic circuit that functions as the Central Processing Unit (CPU) of a computer, providing computational control.
- ❑ The Microprocessor, (or CPU), is the brain of the computer.
- ❑ A microprocessor is “a component that implements memory”.
- ❑ Microprocessor is the cord of the system.

# Microprocessor



# Operation Types in a Microprocessor

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All of the operation of the microprocessor can be classified into one of three types:

1. Microprocessor Initiated Operation
2. Internal Operation
3. Peripheral Initiated Operation

# Microprocessor Architecture

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The microprocessor can be programmed to perform functions on given data by writing specific instructions into its memory.

- ❑ The microprocessor reads one instruction at a time, matches it with its instruction set, and perform the data manipulation specified.
- ❑ The result is either stored back into memory or displayed on an output device.

# Necessary Tools for Microprocessor

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- ❖ CPU : Central Processing Unit
- ❖ I/O : Input / Output
- ❖ BUS : Address bus & Data Bus
- ❖ CU: Timing and Control Unit
- ❖ Special and General Purpose Register
- ❖ L1 & L2 Cache Memory
- ❖ Bus Interface

thank you

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