## BCA Hons. Degree Part - I Subject : IBM PC

# Topic - Microprocessor

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Submitted by

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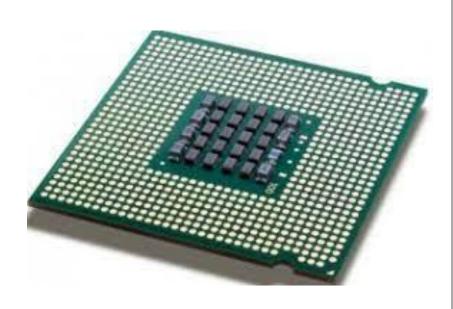
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### Microprocessor

- □ 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

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

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**

- ❖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

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