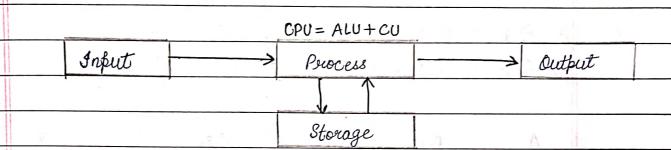
Unit: 1



Basic Amenities of Computer Organisation:

- * ALU
- * All operations
- * Control design
- * I/O organization
- ★ Storage

Arithmetic Circuit:

A

A

B

Adder

M

XOR

Control value (Control Input)

. De ferfern Read and write oferations MAR and MDR are used.	
	= A-1
I/0 I/0	
	1 , $A+1 = A+0+1$
Hen	
	A D+1 = A-1
(Fracesser) (thrit) (Mimery)	
	A B 1 L A+B+1 (Subtraction)
2) MDR: Memory Late Register	$(A+\overline{A})$
0 0	A B 1 0 Subtraction with borress
-> Registers: 1) MAR: Momery additions Register	A B O 1 daddition with lavey (Atom
	В
Processor operation > Manay	A O O O Transfer (A)
0 speaners	
Memory Read > Processor	A B M Com y
	$(A \oplus B = A \cdot B + A \cdot \overline{B}) \& (\overline{0} = 1) \& (\overline{1} = 0)$
E) Control Buss	15
-> System Bus: 1) Address Bus 2) Eata Bus	$- \star \triangle \oplus O = \overline{B}.O + \overline{B}.\overline{O} = O + B = B$
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