## Assignment-VIII

Experiment Title: - Design of n-bit simple All design using MUX

Apparatus Required: - 1c trainer Kit, Cormecting wines, 1c-4539

AND gates, (1c-4081), NOT Gate (1c-4069),

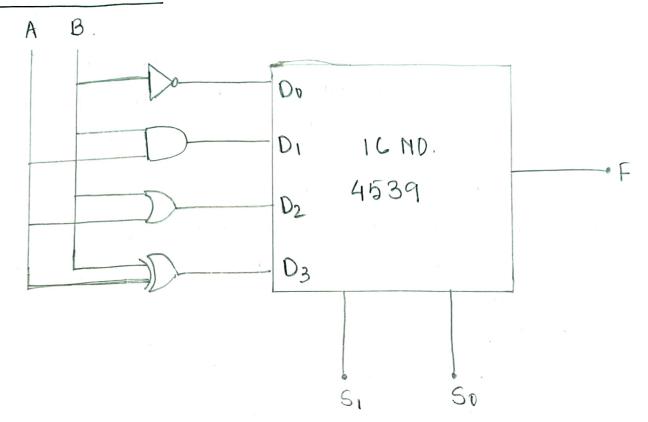
OR gate (1c NO-4071) and XOR Gate (1c-4070).

Theory: - legical microsoperations are very useful for manipulating individual bits or a pontion of a word stored in a negists. They can be used to change the bit values, delete group of bits or insert new bit values into a negister. These microsoperation nequine different logic gates to be inserted for each bit or pair of bits in the negisters to penform the nequined operation.

## Pin Diogram!-

	1	EA		Vpp	16 (1511).
	2	•		Eg	15
	3	I <sub>3A</sub>		50	14
	4	IZA	16-4589	I38	13
		IIA		I <sub>28</sub>	12
	6	IOA		IIB	1
	7			IOB	10
(Ground)	8	V55		08	9

## circuit Diagram!-



Truth Table:

Select lines		Input		output	operational
51	50	Ai	Bi	Fi	
0	0	0	0		NOT
0	1	0	1	O	AND
1	0	1	0		OR
1	1	1	[	Ô	OXOR

Conclusion: Implementation of m-bit simple All is designed and its truth table is verified.