Page No. \_\_\_\_\_\_

TITLE: Design a composite Logic Unit using Multiplexen.

Objective: To design a composite Logic Unit wains Multiplexer.

Theory: Logic microoperations are vory useful for manipulating individual bits and position of a word storied in a register. They can be used to change bit values, delete group of bits are insent new bit values into a register. These microoperations executive different logic gates to be inserted for each bit an pair of bits in the register to portorm the required operation. Although there are several logic microoperations, most computers use only four-AND, OR, XOR and NOT - from which all others can be derived.

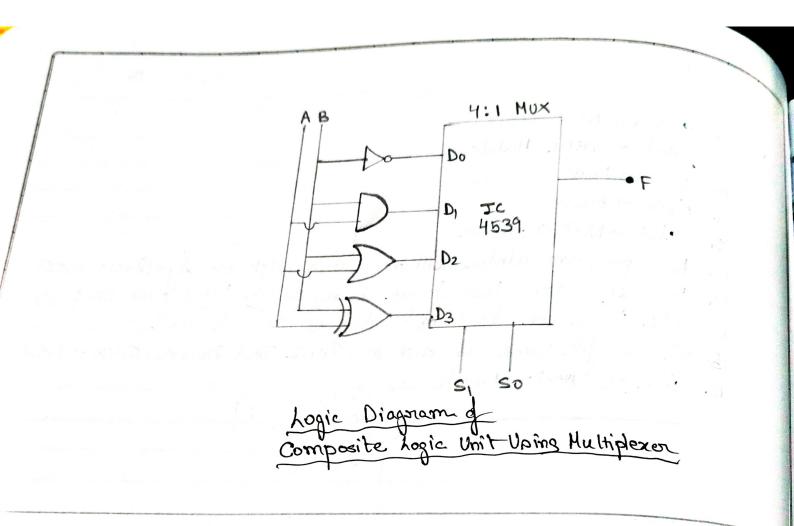
Function Table:

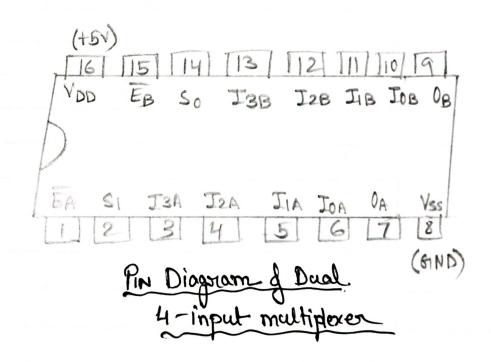
	tunction lable					
_	1010	Selection Lines		Dutoul-(F)	Operation	
-				Ulas Flori		
_		Sı	30	,		
_		0	0	A	NOT	
		0	1	A.B	AND	
		1	0	A+B	OR	
-		1	1	F=ABB	XOR.	
					-	

Trobumento of Components Required:

	I like the same to be a superior					
	Inplumento 4 Comp	Olienz Med	Moles		<del></del>	
		SL No.	Item	Specification.	Obs.	
		2- 1401			3.0	
		1 1.	NOT gate	Tc-4069	1	
_				- 4 11 6 6 1		
		2.	AND gate	IC-4081	+ + -	
			000	IC-4071	1 1	
		3,	OR gate	10 4011	1-1	
		l u	x ox gate	IC-4070	1	
-		1	/ June			
	3	5.	Hulligexen.	4:1	1 1	
			1	JC 4539		
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Teacher's Signature \_





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Verifical	tion Table					
	Select	Linea	In	sut-	Dutput (Fi)	Operation.
	Sı	So	Ai	Bi	Justine (12)	of contract
	0	0	0	0	0	AND
	0	1	0	1	1	OR.
	1	O	1	1.	0	OR
	1	1	1	1	1	AND
Conclus	ion: Thuo mics	with the Moopenahi	e help one	de per be per	logic gates, formed and fexer can be	logic a composi