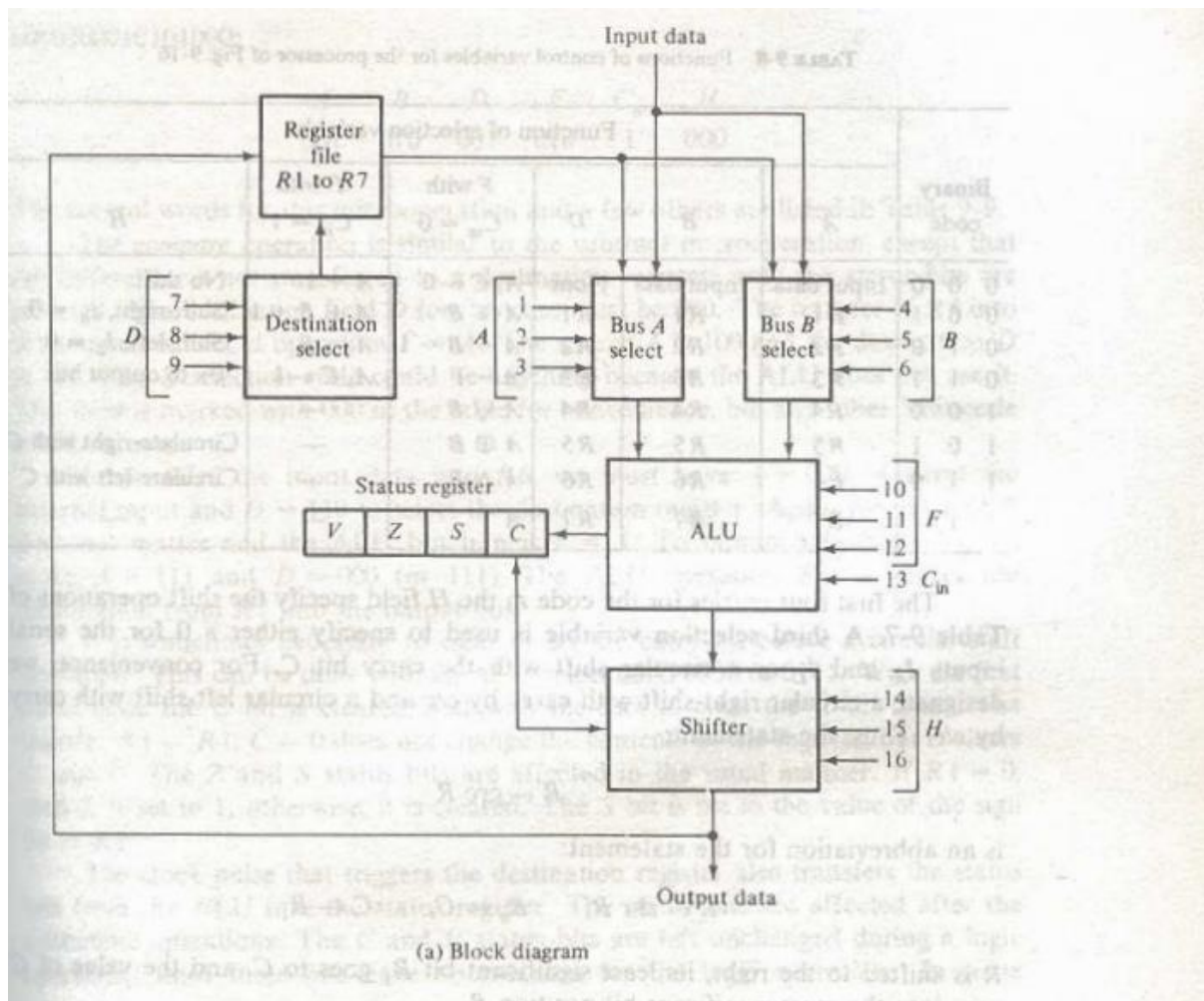


## ALU TABLE FOR CONTROL WORD: -

Binary Code	Function of selection variables					
	A	B	F with $C_{in} = 0$	F with $C_{in} = 1$	D	H
0 0 0	Input Data	Input Data	A-1	A	None	1's to the output Bus
0 0 1	R1	R1	A-B-1	A-B	R1	Shift Left with $I_L=0$
0 1 0	R2	R2	A	A+1	R2	Circulate-Left with Carry
0 1 1	R3	R3	A+B	A+B+1	R3	0's to the output Bus
1 0 0	R4	R4	$\bar{A}$	-	R4	No Shift
1 0 1	R5	R5	A XOR B	-	R5	-
1 1 0	R6	R6	A AND B		R6	Circulate-Right with Carry
1 1 1	R7	R7	A OR B		R7	Shift Right with $I_R=0$



## Control Word :-

A	H	B	F	Cin	D
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