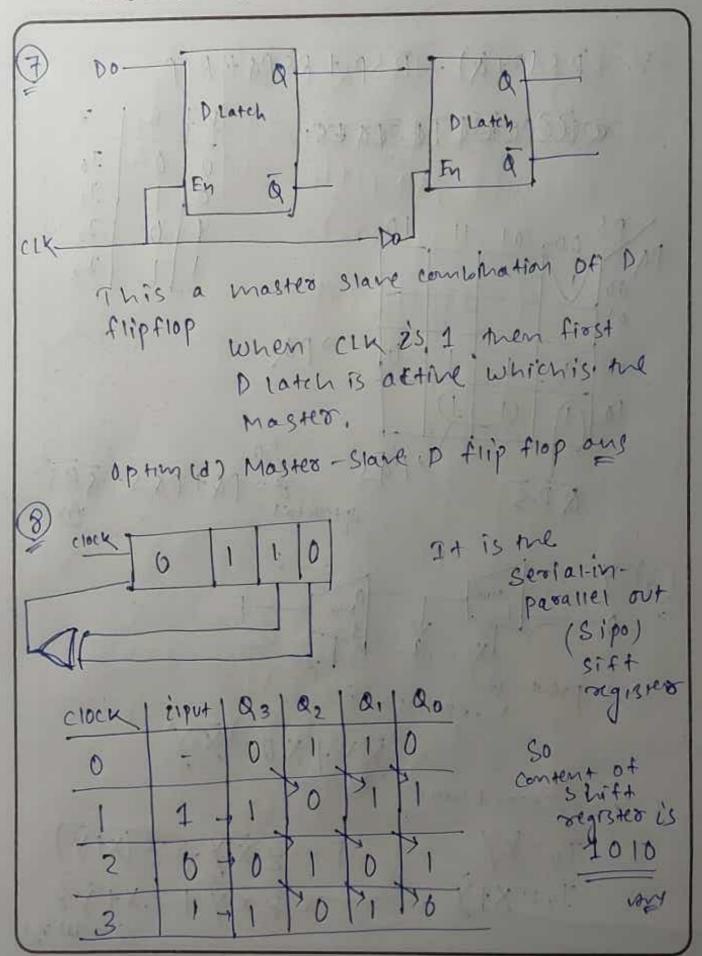


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The state of Engineering & Technology (ITER)		
P ₁ A ₁		
CIK The second of the second o		
From the sequential circuit		
Do = Q1+Q0		
$P_1 = Q_1$		
present DI DO I NEX STATE		
Start 10+ 10t		
00010		
0 1 1 0 1 0		
1 0 0 0 0		
line omis 00,01,10,00,		
na 01		
Detim - h		
Option-6		
ing		

(10) Sign magnitude: This ove fews that on an X wit word, the bit which is to the left will be the sign and remaing x-1 will be the magnitude of the number.

Twos complement

This refers to a positive integer which is Te presented as a sign magnitude, while a negative number is represented as a compliment of a Boolean regarding each bit that cooresponds to a positive number.

- take 1's compliment by taking 0 -1 then and I with it to convert it to 2's complement.

Biased

This refere to a fixed value, which is Often called as bias that added to the integer.

Name:-

6 - (0000 0110) -13 - (0000 1101) add the bonony 13 in bihary > 0000 igner sign which

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(C) 6-13 6 is (0000 0110).
-13 is (1111 0011) ₂
11001111111001111
Signit L'impient
1000001112
(d) -6-13
which is
-6 is 1111 1010 -7
-13 is 1111 0011

101101101
SI + 3.
L'e some
igned signe) 2's complement
(negane)
(0,0010011)2 2, which is -19
11 10 0 10 10 10 10 10 10 10 10 10 10 10
32 340
A CONTRACTOR OF THE PARTY OF TH

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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	MI 1 1 1000 8 1111
	1 +
50 100001100	001101
(discuss)	1 11 1 0000 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1000101	1 (000101)
100111 end 01001	
(disewed)	I CAMPA I I TO
b. 11001100 -M	1 1 0 0 0 0 1 1 - 20
- 00 10 1 110 - H	0 4 1 1 0 1 7 1
- 00 10 10 10 10	-, 2's complement
	(11010010)
11001100	3 3 3 3 3 3 3 3 3
+11010010	0.0011000
	y was its
(N) 00 11110	(100 111 10)
endy	A TOULDE .

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110011110011	→ M ~ 2's complement
	+
21100	001100001101
0011 0000 1111	1011100
\$001000011101	(001000011100)
11000011	-> 2's compreners)
11000011	gouly 2's complement
	110011110011 D01100001101 11000011 11000011 11000011 11000011

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	The second secon
(14) Express in IEEE 32	-bit floating point
2.2.5° 2 is	binay > 00 10
sign 1	bit 0
Before	7, 1.01 × 2
(10.1)2	exponent (1-M)
S = 0	adjust
	1 + 2 (8-1)
Sign - 2 Bbit	1+127
exponent mantissa 23 bit mantissa	= 128 ==
I STM	exponent is 1 000 0000
Answer is	
	0100000000000000
S E	0000 0000)
	M
A TAX TOO GROOM COME	

Name:

Regd. Number:

Name:-