(1)

ASSIGNMENT # 11

1	001	1		T jo
3 .4	d	1	-	18
l sel	n in the			

- ad Db

(d) 63-3456

B	and the second second		
1	2	63-1	0-3456×2 = 0.6912
	2	31-1	0.8812 x2 = 1.3824
		15-1	0.3824 x 2 0.7648
-		7-1	0.7648×2 = 1.5296
		3-1	0.5296 x 2 = 1.0592
		1 10.	6 1000.17 0.1184

0.059242 = 0.2368

0.2368×220.4736

0.4736 x2 20.9172

0.9172x2 = 1.8949

They cannot be fully represented!

[111111.0101100001

(b)	47.	9232
	21	41_1

2 23-1

2 11-1

2 5-1

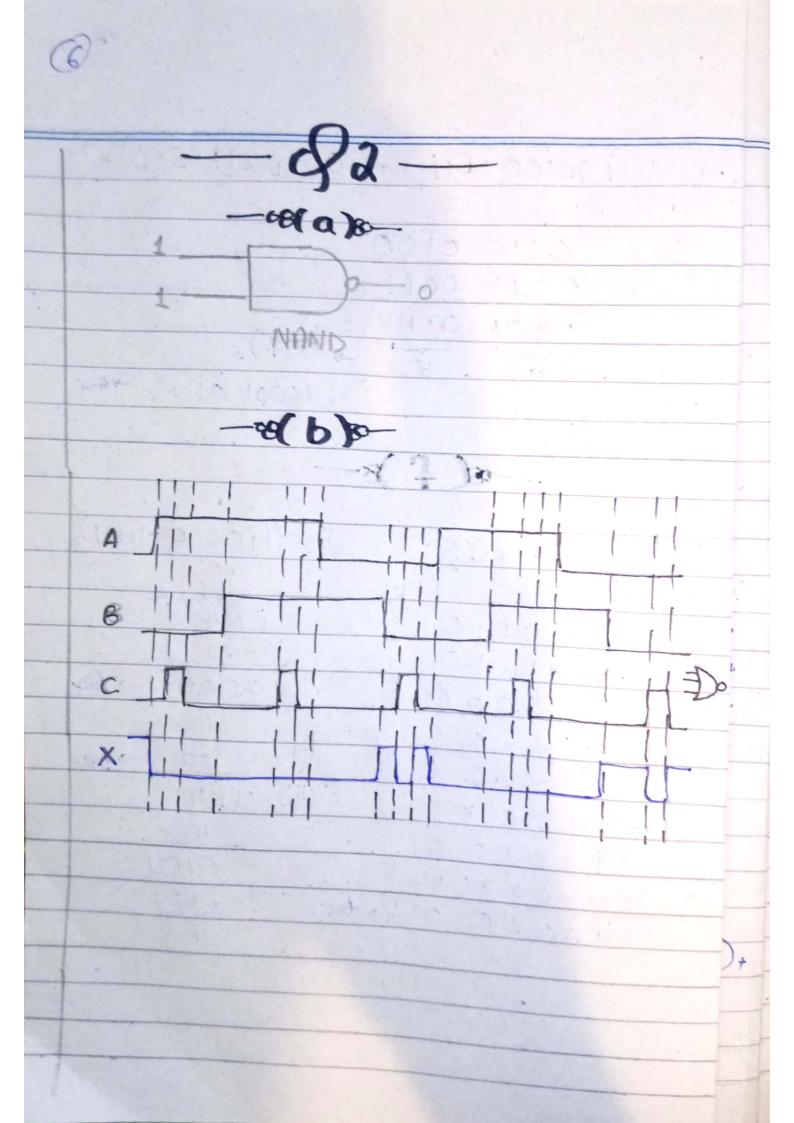
2 2

FISHERMENNETTED 0-9232x2=1-8964 0.1696x2 = 0.3392 0-3392×2 = 0.6784 0.896482= 1.6928 0.6298x2 = 1.3856 They cannot be fully a sepresented! 0.3856×2 20.7712 (10111.111011000) 0.7712 x2 = 1.5424 LAAS 0.5424×2 = 1.089B 0.0898 x2 = 0.1696 bet. 8 a B 6) 100110101.1010. = (2×1)+ (2×0)+ (2×0)+ (2×1)+ (2×1)+ (2×0)+ (2×1)+ (2×0)+ (2×1)+ (2×1)+ (2×0)+ (2×1)+ , 256+ 32+16+4+1+6-5+ 18+ => (309.625)10 -> AN (6) (2xb)+(2xb)+(2x1)+(2x1)+(2x1)+(2x0) (2×0)+ (2×1)+ (2×1)+ (2×1)+ (2×1)+ (2x1) = lab + 32 + 16 + B + 1 + 0. 5 + 19 + 1/16 + 1/32 (185. 84375) in -> Ao

-ce(c)80-
-124
(a) 11111001 -> sign magnitude
(b) 10000110 -> 1's complement
(c) 100000111 -> 2's Complement
(a) (1010) gray
Binary (180 (1100) - Ana
i-discarde
(1) (00010) ·-
(b) (00010) gray code
GC 0,00,10 Bin 60011 (0011)2 -> Ans
(c) (11000010001) gray code
11000010001
1000010001
The state of the s
(100000611110)2 - An
C 2000 0 1 1 1 1 0 1 2 - PM

	-a(e)o-
ů1	268-0
	2 34-0
	$2 34-0$ $2 17-1$ $(10111100)_2 \rightarrow Ax$
	2 8-0 La 8 bit a's complement
	2 4-D.
	22-0
(u)	00111001
	84218421
	3 9
	$\frac{3}{(39)_{16}} \rightarrow Ano$
(iii)	1.1000001 010010011100010000000
	S E F
	1 100001 0100100111000100000000
	Number = $(-1)^{5}(1+F)(2^{F-127})$, S=1
	2(-1)1(1.010000111001)(2124-127)
	2(-1)(1.0100100111001)(2 ²)
1	Number = (-101.00100111001) 2 -> 202.
1	

(V) 01100100 (B(D) + 001(0011 (B(D)=) 0011 0011 10010111 = (97)10 (10001 0111) = Aux e(f) (11) (110000) - (1111)2 (i) (1110)x (1110) 1110 × 1110 10000i -> AD 0000 (iii) 101 - 101 0101 10xx X -101



	-d3 -da)
	(AR)-(B+C)+C
	$= [(A \cdot B) + (B + C)] \cdot C'$ $= [(AB) + (B + C)] \cdot C'$
	2 (B(A+1)+C)-C'
	2 (B+C)·CC') 2 BC'+CC' 7 CC'=0
	2 BC + CC 2 BC' → Av.
t	

-8(6)80

X' + XY + XZ' + XY'Z'' $\{X'+Y + XZ'(1+X')\}$ X'+Y+XZ'(1) X'+XZ'+Y $X'+Z'+Y \rightarrow \text{Stemdar Pos form}$

	X	X	Z	F				
					11	0	0	1.
	0.	0	0	1	1	0.	1	0
	0.	0	1	0	. 1	-1	0	1
1	0	1	0	11	1	1	1	1
1	0.	1	1.	1				

(8	
1	
	X + XY + XZ' + XY'2'-a
	X'(Y+X')(Z+Z') + XY(Z+Z') + XZ'(Y+Y')+XY'Z'
	X117 + X14121
	(X1Y+X1Y1)(Z+Z1)+XYZ+XYZ1+XZ1Y+XY1Z1+XY1Z1
	X/V2 + XXV21 + XXV2 + X/V/Z/ + XYZ + XYZ/+ XZ/Y+X/Z
	1 + 8Y'Z'
	X'YZ + X'YZ' + X'Y'Z + X'X'Z'+XYZ + XYZ' + XYZ'Z'
	011 010 001 000 111 110 160 Standay
	3 2 1 0 7 6 CA
	€ X'+Y+Z' -> & Stomdard POS form
	84
	No-of bits to encode 0-9999 (decimal) an binary -> 1-14 bits an BCD -> 4-16 bits
-	an binary -> 1-14 bits
	9n BCD -> 4-16 bits
	27
	0010 0111
	0000 0000 000
3	0000 0000 0010 0111