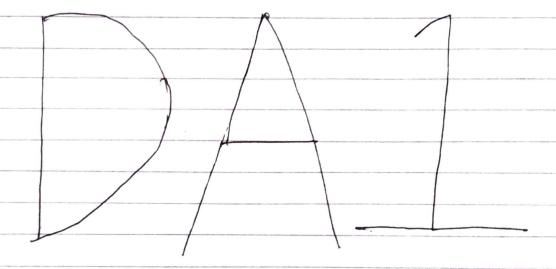
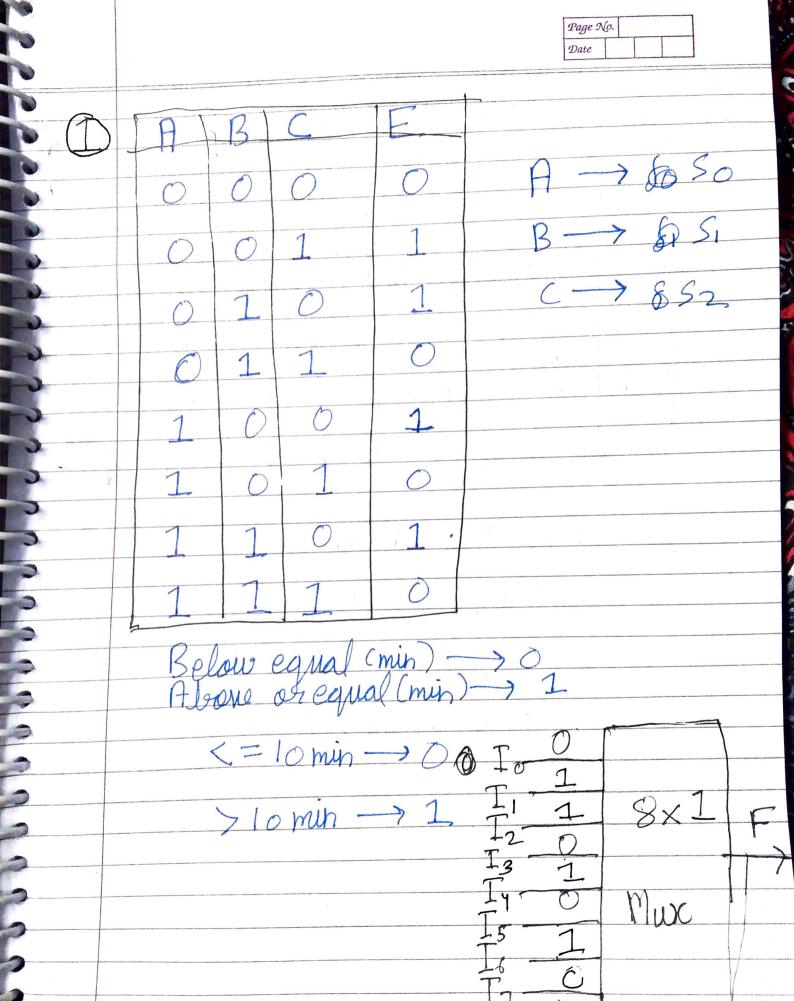
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Name = Uday Singh Shergill

Reg. No: 20 BCE 1806

Course: - CSE 1003 DLD Theory





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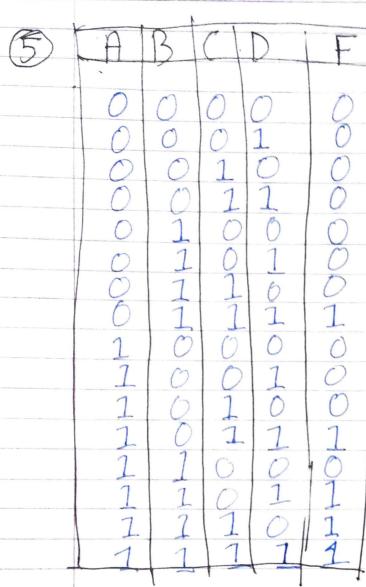
8:3 Privarity encodes

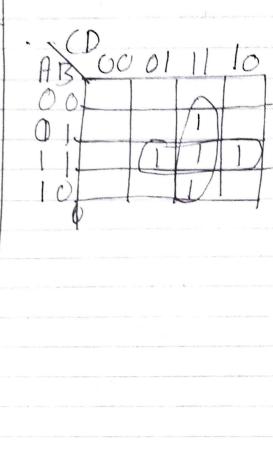
01 = I4+ I5+10 I6+I7

O2 = I2 + I3 + I6 + I7

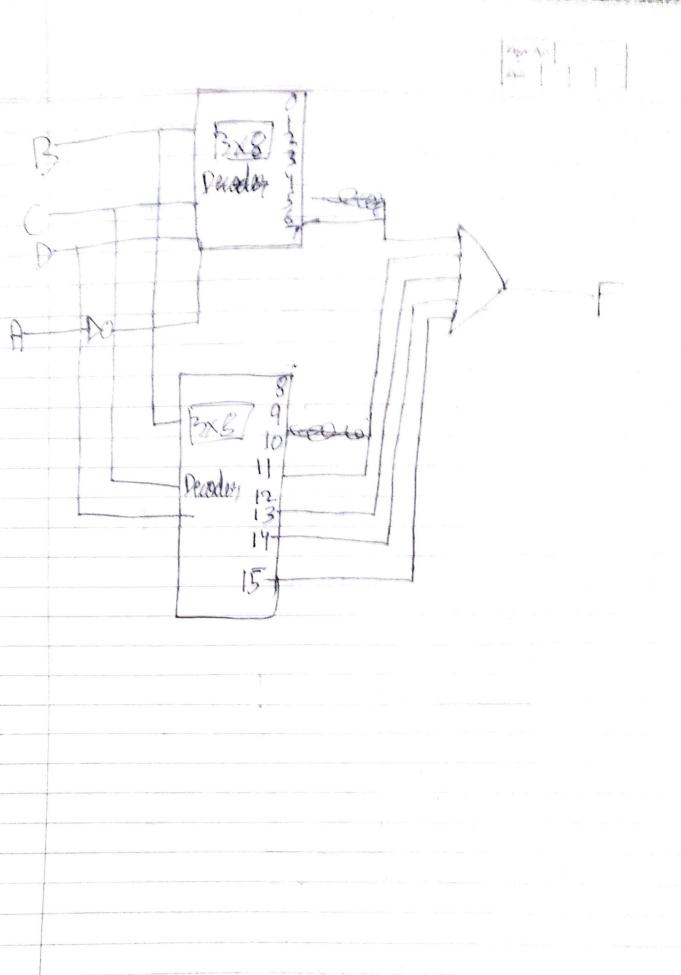
O3 = I1 + I3+ I5+ In

Page We Touth table (2×1) MUx: Dutful In AND gate (a) Touth table MUX Poo To-Cn(0,1) gate $\begin{array}{c|c}
T_0 \xrightarrow{(0,1)} & 2 \times 1 & \text{Outhut} & y \\
T_1 = 1 & \text{H}(0,1) & \text{H}(0,1)
\end{array}$





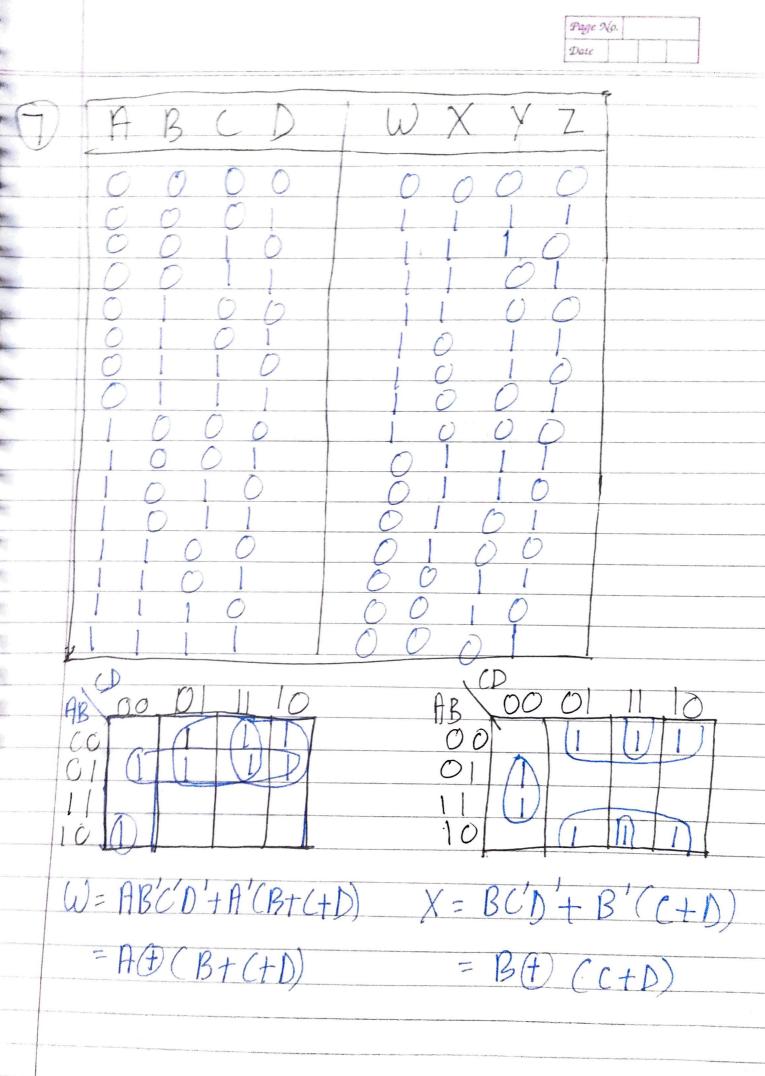
F=ACD+ABD+ABC+BCD =(A+B)LD+AP(C+D)AB



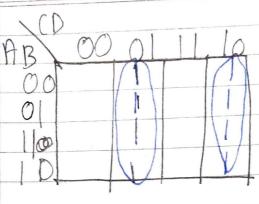
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W2W3 + W1W3+ W2W3 @ W2 W3 + W3 (W1+ W2') = W3(g) + W2W3' g = W, + W2 = Wi + W2 Wi

 $f = W_3(g) + W_2W_3$ $g = W_2 + W_2W_1$



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(8) $F_1(A,B,C) = \xi(1,4,6)$ $F_2(A,B,C) = \xi(3,5)$ $F_3(A,B,C) = \xi(2,4,6,7)$ (NAND) $F_3(A,B,C) = \xi(2,4,6,7)$ (NAND)

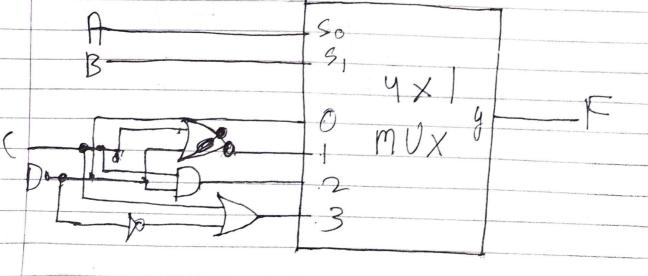
BCD F.D, AB=00 F=(C+D'), AB=01 =
F=CD, AB=10

F=C+D', AB=11

(1,3,4,11,12,14,15)

4x

F= (A,B,C,D) = \(\frac{1}{3}, \frac{1}{4}, \frac{1}{2}, \frac{1}{4}, \frac{15}{2} \)



To In 8x1 multiplier, inputs of N, B and of Selection inputs of SI and Size.

F= ABCD' + CCAOB) + B'C'D

F= A'B'C'D' + BC + AB'D + ABC'D

II = I, - I = O

II = I = D

II = D'

... F = A'B'C'D + A'BC + AB'C'D + AB'C+ABCD

F=C'DM++C(P'B+NB')+ NBC'D+ B' F=NBC'D'+C(NDB)+B'C'D'