ECSE 281 HW

Tyley

1. Implement the hollowing Luncolon using only
19x138 Binon decoders & MAIND Granes

F= [(3, 4, 5, 6, 7)

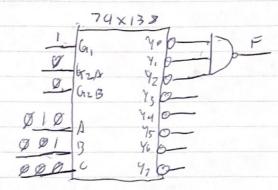
14x138 Binary Decolos -> Active Low

& NAND Soles

G. 9

Maxterns. Offsets -> Product of Sums





F-T (3, 4, 5, 6, 7)

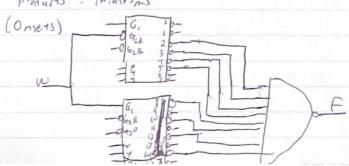
= F = & (1,2,3)

F

Some LON NAND AND

b. F= & [2,3,9,5,8,10,12,14) wx,4,2

Sum of Products = Winterns



Tyler Youk

2. Design a 10 to 4 encoder ut the inputs 1 on of 10 code

Lompard coded present nongly Lot 0-7 [binory 0000-011]

B 8 coded as F [1110]

L 9 coded as F [1111]

Then he internal U. wit

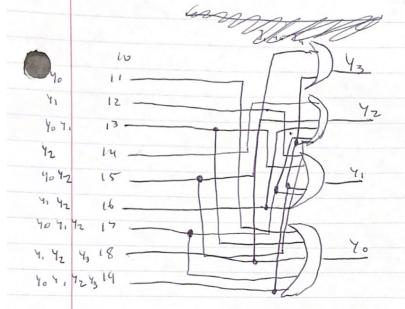
lo 10 4 encode

43: 78+ 79

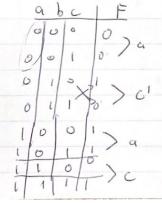
42: 24+ 25+ 26+ 11+ 28+ 29

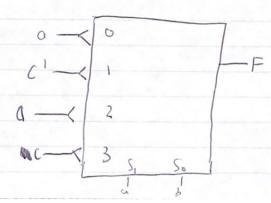
41: 12 + 231 26 + 27 + 28 + 19

YD: I, + 13 + 75 + 17 + 29

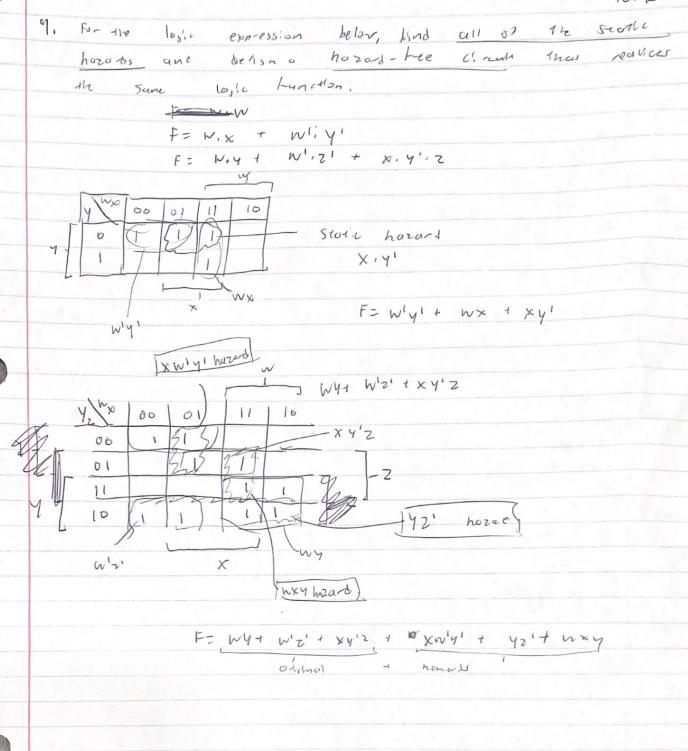


3. Implement the Lollowins only using a single axi multiplexer & suredes









Tyleryork

5. Desisn on 8x1 multiplex+1 (8 Jac somes) 161+ data for each source)

many 2x1 multiplexes as needed. Clean lase as