## EE 451

## HOME WORK# 6

1. FINTO THE KERNELS FOR THE FOLLOWING EQUATION AND USE THE BOOLEAN DIVISION METHOD TO CONERT TO A SIMPLIFIED MULTILEVEL LOGIC FUNCTION

F = ᾱξ̄g + αĥj + ᾱḡd + bfd + x̄g + bfē̄ + b̄ξ̄ḡ + adf + ᾱξ̄f + b̄ḡd + b̂jh

WE CAN CHOOSE ANY OF THE KERNEL AS THE DIVISOR OF F
LET'S CHOOSE P = Q1 B

3/3

U = a+a+a+a+ b+b+b+b+b+b

U = a+6

V = Eg + hg + gd + df + ef + fd + fe + eg + gd + jh + xg

Va = = g + hg + gd + df + =f

1 y6 = fd + fë + ëg + gd + jh

 $r = F - 9p = x \overline{9}$ 

. F = h+pq

= (a+b) ( = = + hj + = d + + = f) + xy

F = (a+b) [(z+d) (f+g) +(bj)] + xg