LAB-06

α= Σ1, 4,11,13 α= (ĀBCD)+ (ĀBCD)+(ĀBCD)+(ĀBCD) α= ĀC (BD+BD)+ AD (BC+BC) α= ĀC (BΦD)+ AD (BΦC)

b= Z 5, c, 11, 12, 14, 15 b=(ĀBCD) + (ĀBCD) + (ABCD) + (ABCD) + (ABCD) + (ABCD) b=ĀB(CD+CD) + ACD(B+B) + ABD(C+C) b=ĀB(C⊕D) + ACD + ABD

 $C = \sum_{2,12,14,15}$ $C = (\overline{ABCD}) + (ABC\overline{D}) + (ABC\overline{D}) + (ABC\overline{D})$ $C = (\overline{ABCD}) + AB\overline{D}(\overline{C} + C) + (ABC\overline{D})$ $C = (\overline{ABCD}) + (AB\overline{D}) + (ABC\overline{D})$ $C = \overline{ABCD} + AB(\overline{D} + CD)$ $C = \overline{ABCD} + AB(\overline{D} + CD)$

d= £1,4,7,10,15 d= (ĀΒ̄C̄D)+(ĀΒ̄C̄D)+(ĀΒ̄C̄D)+(ĀΒ̄C̄D)+(ĀΒ̄C̄D) d= BCD(Ā+A)+ĀC(Β̄D+Β̄D)+(ĀΒ̄C̄D) d= BCD+ĀC(Β⊕ D)+ĀΘ̄C̄D Q= Σ1,3,4,5,7,9 Q= (ĀBCD)+(ĀBCD)+(ĀBCD)+(ĀBCD)+(ĀBCD)+(ABCD) Q= ĀD(BC+BC+BC+BC)+C(ĀBD+ABD) Q= ĀD(BC+B⊕C)+C(ĀBD+ABD)

 $f = \sum_{1,2,3,7,13}$ $f = (\overline{ABCD}) + (\overline$

q= {\bar{A}\bar{B}\bar{C}\bar{D}\right\ri