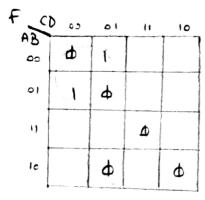
150 180005 Yagmur GAĞLAR Guyları.

Suestion 2a- F(A,B,C) = ABC + AB + AC = AC + ABC + AB + AC = AC + AB + ACabsorbtion of AC.

 \rightarrow ABC can be eliminated with consensus theorem therefor it is not prime implicant of $F(A_1B_1C)$.

Question 26 - F(A,B,C,Q) = U((1,4) + U4 (0,5,9, 10,15)



- If we choose all don't cares as zero there will be two groups ((1),(41), both needs A variables.
- . If we choose mo and ms as I and other don't cares as zero there will be one group (0,1.4,51) whose sop is \overline{AC} which needs 2 not 1 and gates, 2 variables.
- Third interaction is logical, $SOP = \overline{AC}$ $m_0 = m_5 = 1$ $m_9 = m_{10} = m_{15} = 0$