

Quiz-2

① Complement :

$$AB (Bc' + (c'd'), (A'+c))$$

dual form :

$$(A+B) + ((B+c') \cdot (c'+d') + (A' \cdot c))$$

complement form :

$$(A'+B') + ((B'+c) \cdot (c+d) + (Ac'))$$

② $F(A, B, C) = \sum (0, 4, 6)$

$$= \sum (000, 100, 110)$$

$$= A'B'C' + AB'C' + ABC'$$

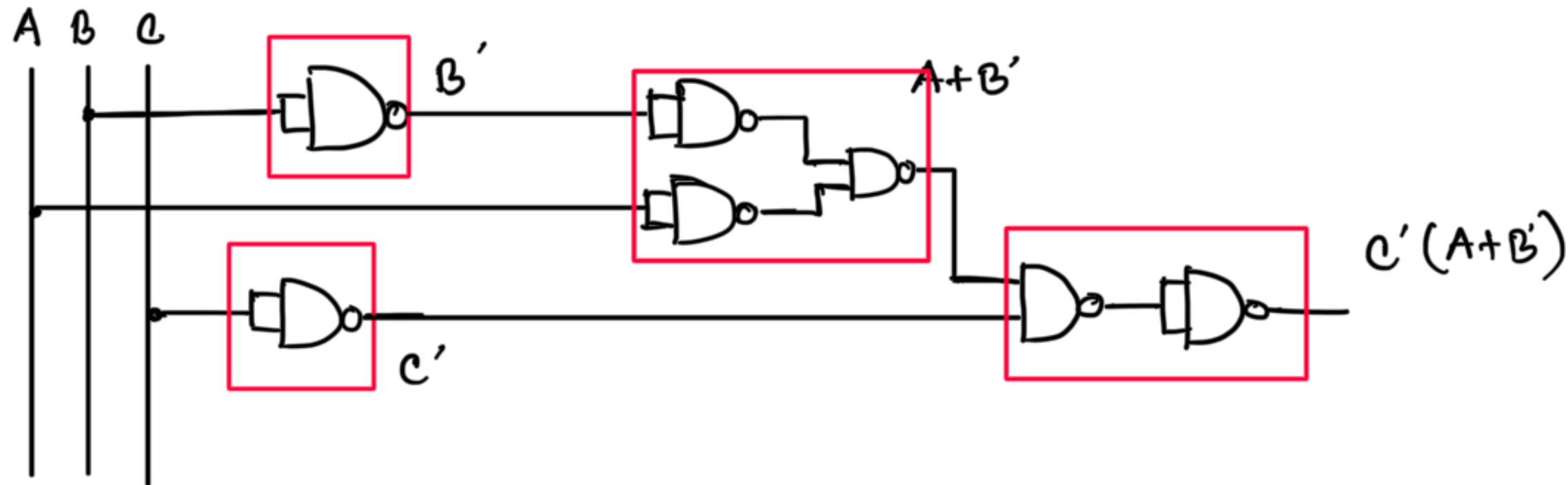
$$= B'C'(A'+A) + ABC'$$

$$= B'C' + ABC'$$

$$= C'(B' + AB)$$

$$= C' (B' + A) (B' + B)$$

$$= C' (A + B')$$



③ $F(A, B, C, D) = A + B'C$

$$= (A + B')(A + C)$$

$$= (A + B' + CC' + DD')(A + C + BB' + DD')$$

$$= (A + B' + C + DD')(A + B' + C' + DD')$$

$$(A + B + C + DD')(A + B' + C + DD')$$

$$= (A + B' + C + D)(A + B' + C + D')(A + B' + C' + D)$$

$$\begin{aligned}
 & (A+B'+C'+D')(A+B+C+D)(A+B+C+D') \\
 & (A+B'+C+D)(A+B'+C+D')
 \end{aligned}$$

$$= 0100, 0101, 0110, 0111, 0000, 0001$$

$$= \pi(4, 5, 6, 7, 0, 1)$$