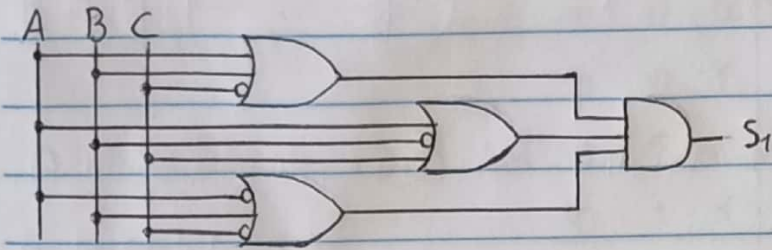
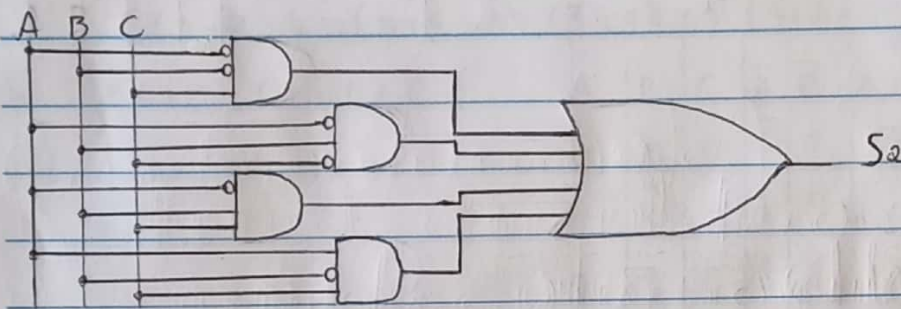


## Lista 02

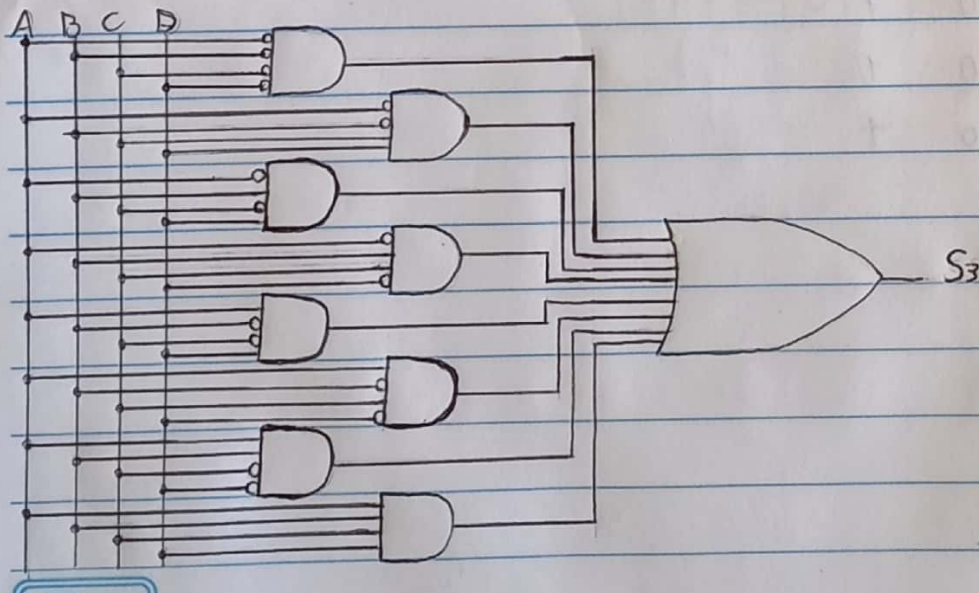
① a)  $S_1 = (A+B+\bar{C}) \cdot (A+\bar{B}+C) \cdot (\bar{A}+\bar{B}+C)$



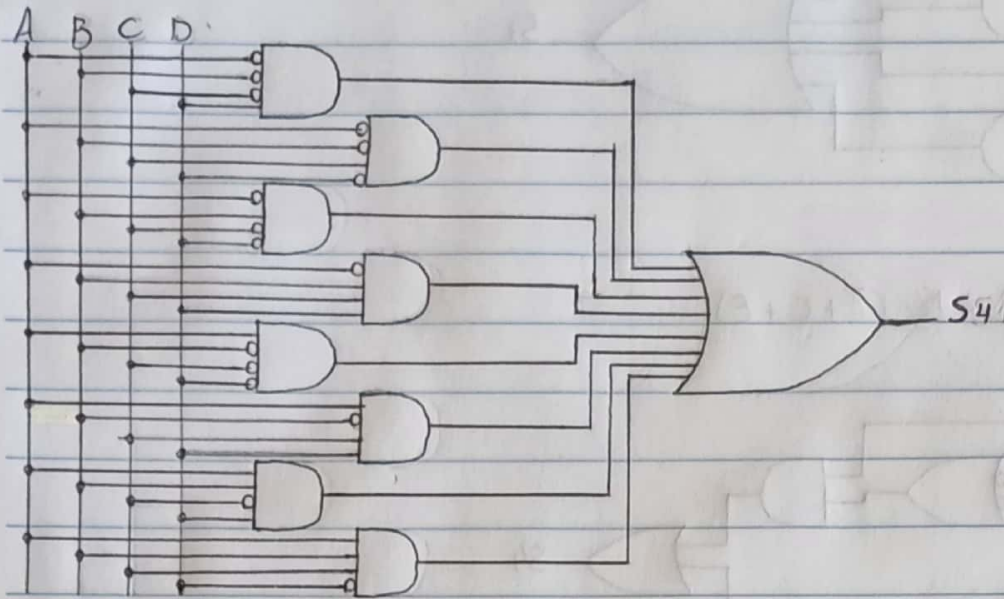
b)  $S_2 = (\bar{A} \cdot \bar{B} \cdot C) + (\bar{A} \cdot B \cdot \bar{C}) + (\bar{A} \cdot B \cdot C) + (A \cdot \bar{B} \cdot C)$



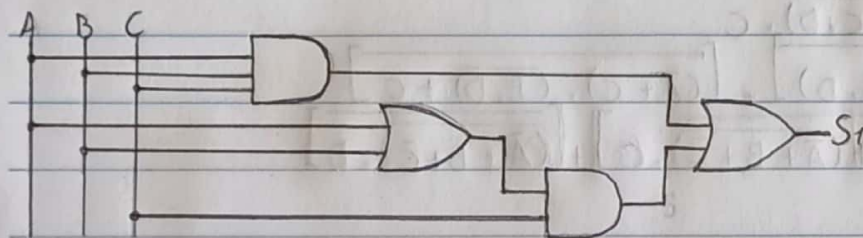
c)  $S_3 = (\bar{A} \cdot \bar{B} \cdot \bar{C} \cdot D) + (\bar{A} \cdot \bar{B} \cdot C \cdot D) + (\bar{A} \cdot B \cdot \bar{C} \cdot D) + (\bar{A} \cdot B \cdot C \cdot \bar{D}) + (A \cdot \bar{B} \cdot \bar{C} \cdot D) + (A \cdot \bar{B} \cdot C \cdot \bar{D}) + (A \cdot B \cdot \bar{C} \cdot \bar{D}) + (A \cdot B \cdot C \cdot D)$



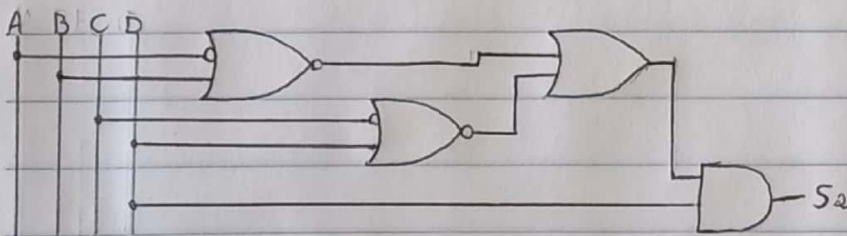
$$d) S_4 = (\bar{A} \cdot \bar{B} \cdot \bar{C} \cdot D) + (\bar{A} \cdot \bar{B} \cdot C \cdot \bar{D}) + (\bar{A} \cdot B \cdot \bar{C} \cdot \bar{D}) + (\bar{A} \cdot B \cdot C \cdot D) + (A \cdot \bar{B} \cdot \bar{C} \cdot \bar{D}) + (A \cdot \bar{B} \cdot C \cdot D) + (A \cdot B \cdot \bar{C} \cdot D) + (A \cdot B \cdot C \cdot \bar{D})$$



$$(2) a) S_1 = A \cdot B \cdot C + (A + B) \cdot C$$

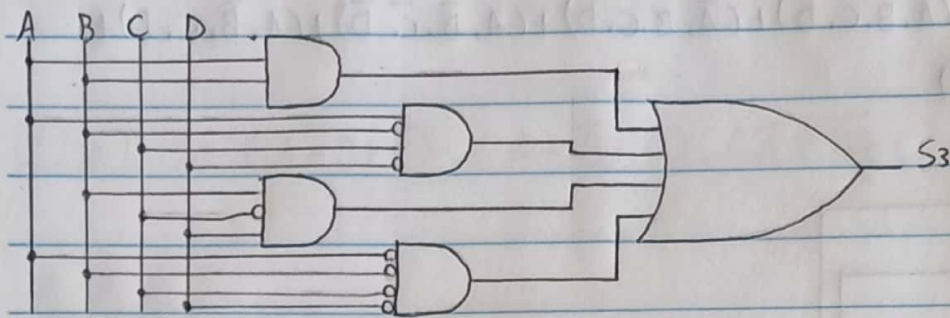


$$b) S_2 = [(\bar{A} + B) + (\bar{C} \cdot D)] \cdot \bar{D}$$

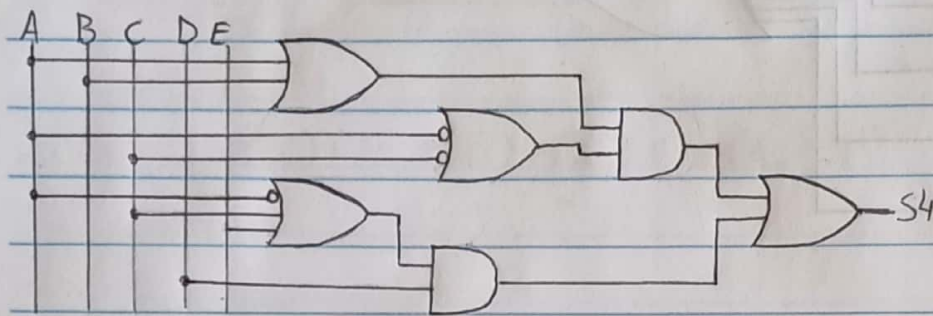


$$c) S_3 = A \cdot B + (A \cdot \bar{B} \cdot C \cdot \bar{D}) + (B \cdot \bar{C} \cdot D) + (\bar{A} \cdot \bar{B} \cdot \bar{C} \cdot \bar{D})$$





d)  $S_4 = (A + B) \cdot (\bar{A} + \bar{C}) + D \cdot (\bar{A} + C + E)$



③ a)  $S_1 = \overline{[(A \cdot B) + B + D]} + (\bar{A} \cdot C \cdot D) \cdot C$

b)  $S_2 = \overline{[(B \cdot \bar{D}) + A]} \cdot (\bar{B} \cdot D + C \cdot D) \cdot \overline{[(\bar{A} + C) \cdot (\bar{B} \cdot \bar{D}) + C]}$

c)  $S_3 = (B \oplus D) + \overline{[(A \cdot \bar{C} \cdot D) + (\bar{A} + B + \bar{C}) \cdot C]} + \overline{[(\bar{A} + B + \bar{C}) \cdot D]}$

d)  $S_4 =$