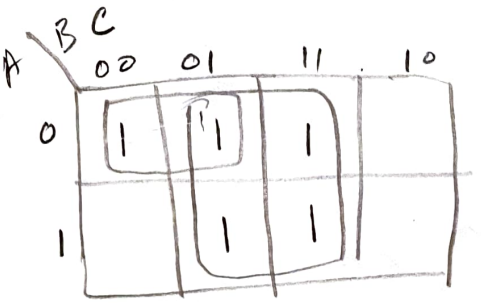
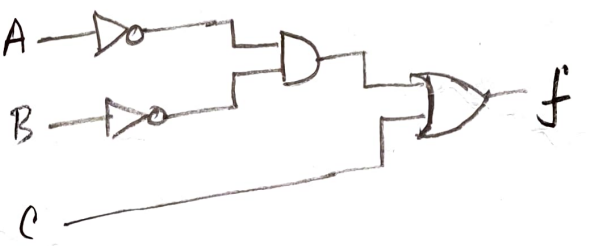
Q1.

I

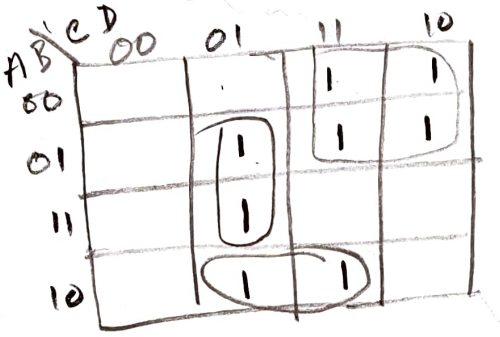


$$f(A,B,C) = C + \bar{A}\bar{B}$$

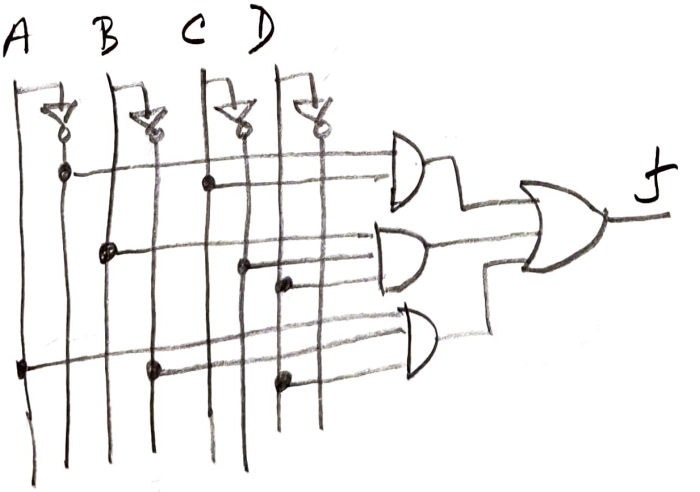
II



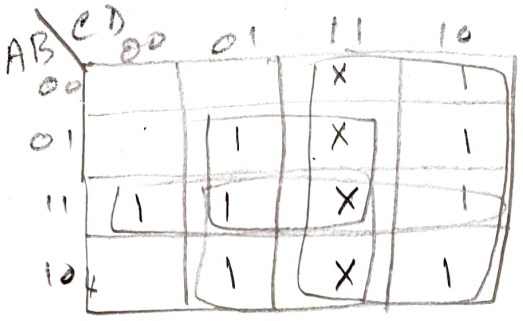
Q.2.



$$f(A,B,C,D) = \bar{A}C + B\bar{C}D + A\bar{B}D$$

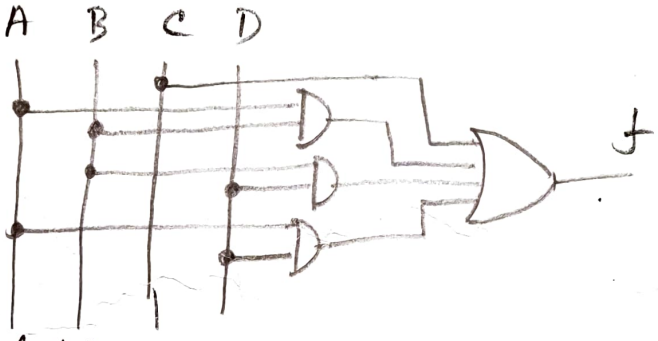


Q3.

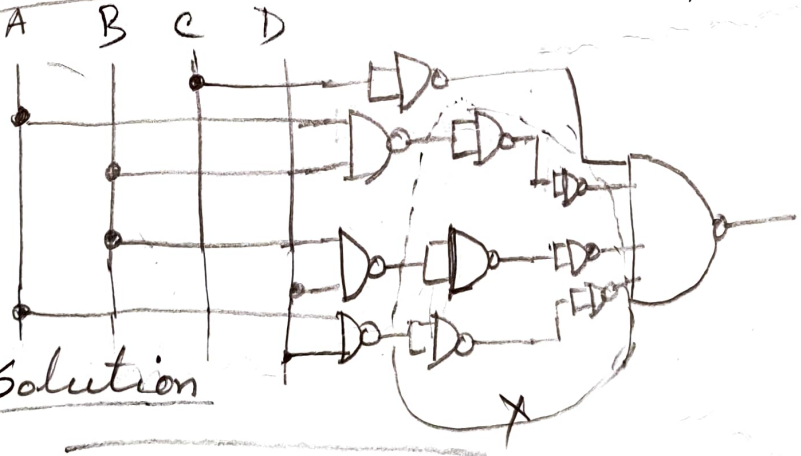


$$f = C + AB + BD + AD$$

I



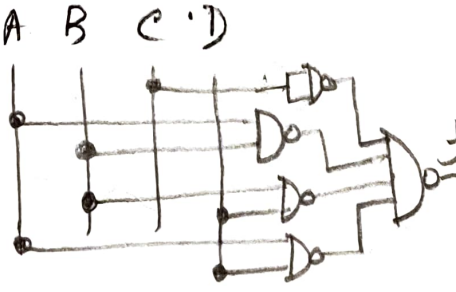
II. 1st solution



2nd Solution

$$f = \overline{(C + AB + BD + AD)}$$

$$= (C' \cdot (AB)' \cdot (BD)' \cdot (AD)')'$$



III.