

## Assignment 3

Deadline: Thursday April 22,-2021

- No Assignment will be accepted after the deadline.
- You need to submit the assignment in Hard-form (your own hand-written on paper) over the slate.
- **CALCULATOR IS NOT ALLOWED**
- Best of Luck.

Name: \_\_\_\_\_

Roll No. \_\_\_\_\_(on each page)

Question # 1: Simplify the following expression and verify the result from truth table before and after simplification

a)

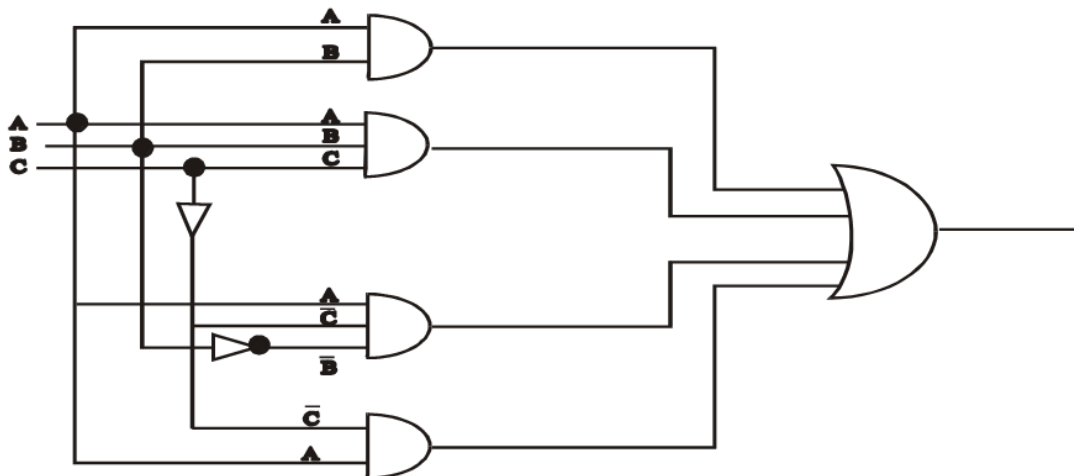
$$\overline{A} \overline{B} \overline{C} + \overline{A} B \overline{C} + A \overline{B} \overline{C} + \overline{A} \overline{B} C$$

b).

$$A \overline{B} C + \overline{A} B \overline{C} D + \overline{A} C (\overline{A} BD)$$

Question # 2: (1 )Generate Boolean express and then (2)Simplify using Boolean algebra and (3) Draw the logic circuit after simplification.

a)



b)

