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

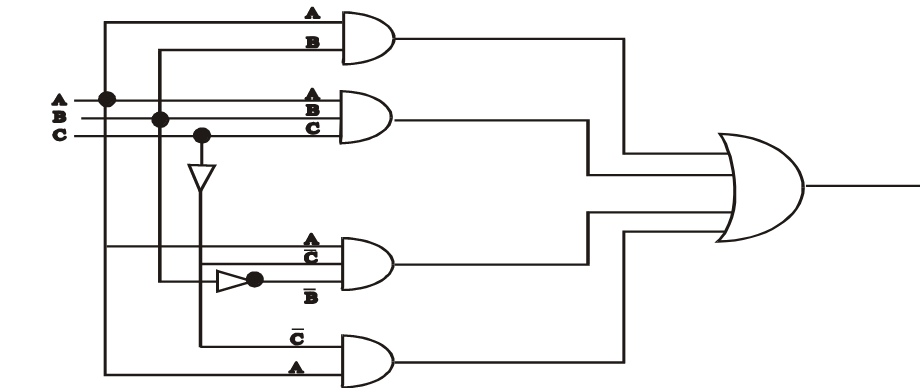
a)

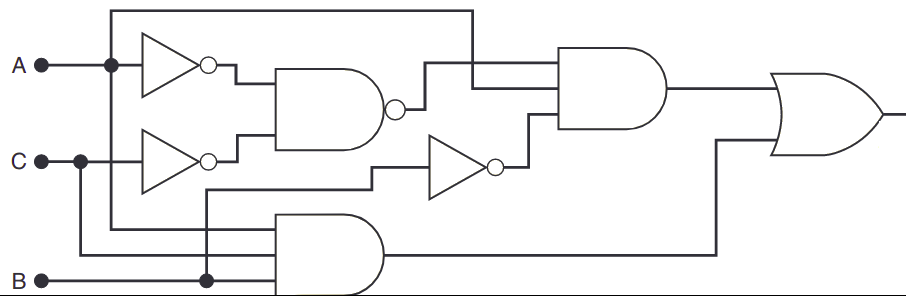
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \_\_ | \_\_ | \_\_ |  | \_\_ |  | \_\_ |  |  | \_\_ | \_\_ |  | \_\_ | \_\_ | \_\_ |
| A | B | C | + | A | B | C | + | A | B | C | + | A | B | C |

b).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  | **\_\_\_\_\_\_\_** | |
|  | **\_\_\_** |  |  | **\_\_\_** |  | **\_\_\_** | **\_\_\_** |  | **\_\_\_** |  | **\_\_\_** |  |
| A | B | C | + | A | B | C | D | + | A | C( | 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)