Assignment 1

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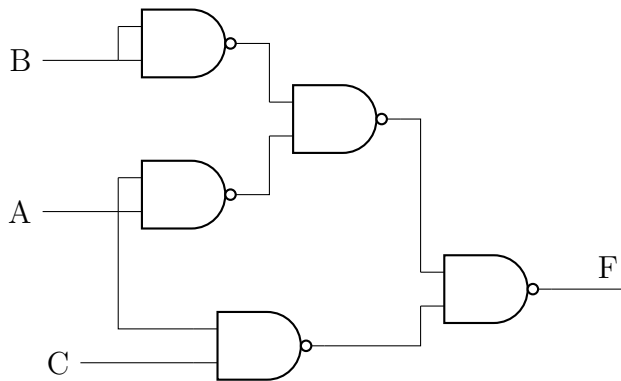EE20RESCH11014

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1 Question:6(a)

Draw the Logic Circuit of the following Boolean Expression:

$$\bar{A}\bar{B} + AC \qquad (1)$$

2 Solution

The logic circuit for the boolean function $\bar{A}\bar{B} + AC$ can be drawn using only NAND gate as:

$$F = \overline{\overline{\bar{A}\bar{B}}\,\overline{AC}} \qquad (2)$$

$$F = \overline{\overline{\bar{A}\bar{B}}} + \overline{\overline{AC}} \qquad (3)$$

$$F = \bar{A}\bar{B} + AC \qquad (4)$$