Name: Id#

COE 202, Term 122

Digital Logic Design

Quiz# 2

 Date: Saturday, Feb. 23

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# **Q1**. Simplify the following Boolean functions to the **minimum** number of literals sum-of-product expressions using algebraic manipulation:

## $A B+\overbar{B} C+A C D+A B \overbar{D}+A C \overbar{D} $

## $\overbar{(\overbar{(A+\overbar{B} C )}.\left(A+\overbar{C } \overbar{D} \right)+\overbar{AC})}$

**Q2**. Express the function $F\left(A, B, C\right)= A +\overbar{B} C $as:

## Sum of minterms $F(A, B, C)= \sum\_{}^{}m( ) $

## Product of maxterms $F\left(A, B, C\right)= \prod\_{}^{}M( ) $