Name: Id#

COE 202, Term 131

Digital Logic Design

Quiz# 2

 Date: Thursday, Oct. 3

#

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

## *x’ y’ z’ + x’ y’ z + x’ y z + x y’ z + x y z*

## A B C’ + A’ C’ D + A B’ C’ + B C’ D + A’ D

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

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

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