

Name:

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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:

(i) $x'y'z' + x'y'z + x'yz + xy'z + xyz$

(ii) $ABC' + A'C'D + AB'C' + BC'D + A'D$

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

(i) Sum of minterms $F(A, B, C, D) = \sum m()$

(ii) Product of maxterms $F(A, B, C, D) = \prod M()$