Name: Id#

COE 202, Term 201

Digital Logic Design

Quiz# 2

Date: Sunday, Sep. 20, 2020

**Question 1.** Using Boolean Algebraic manipulations, minimize the following functions to minimum the number of literals in **sum of products** representation. **Show your work clearly step by step indicating the used properties of Boolean Algebra**: **(13 points)**

1. **(5 points)** F1 = (x’y’ + z)’ + z + xy + wz

1. **(5 points)** F2 = A’B(D’ + C’D) + B(A + A’CD)

1. **(3 points)** F3 = A’C’ + AD + BC’D