

**UNCC, Department of Electrical and Computer Engineering**  
**ECGR 2181, Fall 2008, Quiz #3, 9/9/2008**

Name: \_\_\_\_\_

1. Convert the decimal number 400 to a 16-bit two's complement binary number using either of the methods shown in class. Show all work.

2. Assume a logical function  $f = (a \text{ AND } b) \text{ OR } (c \text{ AND } d)$ . Write the truth table showing all 16 different combinations of a, b, c, and d.