EGC220-01 - Digital Logic Fundamentals

Quiz #1
February 1, 2021
(**Submit your answers as a pdf file onto blackboard**)

Time: 25 mts total

Name: …Maria Hernandez……………………………

(10 pts) 1. Answer True/False

…F…A microphone converts the sound waves into digital signals.

…F..…The radix of a number system with symbols 0,1,2,3,4,5,6, and 7 is 7.

…T….During counting in octal, the next number after octal 677 is the octal
number 700_8 .

…F….The magnitude of the octal number (46_8) is 52.

…T….In hexadecimal representation, the number immediately before 700_{16}
is $6FF_{16}$.

…F….A 7-bit number can represent numbers from 0 to 128, including both.

…T….Any 18-bit number can be represented by a 4 digit Hexadecimal
number.

…F….23.758 is a valid octal number

…T….Conversion of a number from Hexadecimal to Octal base can be done
without conversion to decimal.

…T….In general, the number of digits in an octal representation will be less
than the number of digits in an equivalent decimal number.