

Name:

Id#

COE 205, Term 092
Computer Organization & Assembly Programming
Quiz# 2

Date: Saturday, March 13, 2010

Q1. Fill the blank in each of the following:

1. The unsigned binary numbers 11011011 represents the decimal value _____.

2. The unsigned decimal number 1015 is represented in binary as _____.

3. The unsigned hexadecimal number F6 represents the decimal number _____.

4. Using 12 bits, the largest number than can be represented in decimal is _____.

5. Assuming 8-bit representation, the result of addition of the numbers FA+FE is _____.

6. Assuming 8-bit representation, the signed number -20 is represented in sign-magnitude as _____ and in 1's complement as _____ and in 2's complement as _____.
7. Assuming 2's complement representation, the 12-bit number E20 represents the decimal value _____ and is represented using 16-bits as _____.
8. Assuming 2's complement representation, the operation FE0E – 0F20 produces the result _____ and overflow = _____.
9. Assuming 12-bit 2's complement representation, the smallest number that can be represented is _____ in decimal and _____ in binary.
10. Assuming that an 8-bit register contains the hexadecimal value E4 representing a character, the character stored is _____ and the parity used is _____. Note that the ASCII code of character 'a' is 61h.