

Name:

Id#

COE 205, Term 052
Computer Organization & Assembly Programming
Quiz# 2

Date: Monday, March 6, 2006

Q1. Represent the numbers given below in **Hexadecimal** in the format specified in the table assuming **8-bits**:

Number	Sign-Magnitude	1's Complement	2's Complement
+20			
+108			
-20			
-108			

Q2. Using the 2's complement Hexadecimal representation obtained in Q1, perform the following operations and indicate if an overflow occurs or not:

i. $(-108) - (20)$

ii. $(108) + (-20)$

Q3. Determine the ASCII representation of the string **AE31** assuming **Even Parity**. Note that the ASCII code of character A is 41H and that of character 0 is 30H.