Quiz #1

1:00 pm, Monday, September 25th

ALL QUESTIONS ARE MULTIPLE CHOICE:

1. What is the decimal equivalent of the unsigned base 4 number 231_4?

   a. 29_{10}
   b. 45_{10}
   c. 231_{10}
   d. None of the above

2. What is the base 5 equivalent of the unsigned decimal number 123_{10}?

   a. 20_5
   b. 344_5
   c. 443_5
   d. None of the above

3. What is the base 8 equivalent of the unsigned decimal number 0.75_{10}?

   a. 0.3_8
   b. 0.6_8
   c. 6.0_8
   d. None of the above

4. What is the base 9 equivalent of the unsigned base 3 number 21.012_3?

   a. 7.10_9
   b. 7.12_9
   c. 7.16_9
   d. None of the above

5. What is the result of converting the decimal number -13.75 to a 2's complement representation that uses 6 bits to the left of the decimal point and 2 to the right?

   a. 110010.11_2
   b. 110010.10_2
   c. 110010.01_2
   d. None of the above