

**Quiz#1**  
**Digital Logic Design**  
**BESE-16B**

**Feb 21<sup>st</sup> 2011**

**Max Marks: 15**

**(2)**

1. For each of the following, state if it is discrete or continuous.

a.	Body temperature	
b.	Outcome of a coin toss	
c.	Grades of BS16 students in Digital Logic Design	
d.	Height of a person	

**(5)**

2. Write down the counting from 0 to 12 in base 2, base 8 and base 6.

Decimal	Base 2	Base 8	Base 6
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

**(4)**

3. Perform the following conversions.

$$\begin{array}{ll} (11010011)_2 = & ( \quad )_{10} \\ (11010011.0011)_2 = & ( \quad )_8 \\ (A7.3)_{16} = & ( \quad )_2 \\ (45.5)_8 = & ( \quad )_{10} \end{array}$$

**(4)**

4. Perform the following operations using r's complement.

a.  $(152)_{10} - (56)_{10}$

b.  $(011)_2 - (101)_2$