## **Number Systems**

## 1.1 Number Systems

a. 110110111

1.	What is another name for the base-2 number system?				
2.	To make reading and writing large numbers easier we use			_ notation.	
3.	Conve a.	rt the following numbers from binary to 110	decimal (base-10). b. 1001		
	C.	10011	d. 11010		
4.	List the numerals that make up the hexadecimal (hex) number system.				
5.	Convert the following numbers from hex to decimal.  a. E b. 16				
	C.	5C	d. A1		
1.2 Number Conversion					
6.	Conver a.	rt the following numbers from binary to 110101	decimal. b. 10001001		
7.	Convert the following binary numbers to hex.				

b. 101100111100

8.	Convert the following decimal numbers to binary using ladder technique.				
	a. 40	)	b. 157		
9.	Convert th	ne following decimal numbers to binar	ry using positional notation technique.		
	a. 37		b. 257		
10.	Convert th	ne following hexadecimal numbers to	binary.		
	a. F6	5	b. 3BC		