

## **Tutorial No. 3**

1.	The decimal number system is in base					
2.	The binary number system is in base					
3.	The octal number system is in base					
4.	Convert the fol	•		to binary 34.24	e) 150.64	f) 24.14
5.	Convert the following binary numbers into decimal numbers.					
	a) 110000111	b) 110011	c) 1001111	d) 1100110	0.1110	
6.	Convert the following octal numbers into decimal numbers.					
	a) 234	b) 217	c) 25.33			
7.	Convert the following hexadecimal numbers into decimal numbers.					
	a) E16	b) 389	c) 2AB			
8.	How many bits would be required to encode decimal numbers 0 to 9999 in binary					
	codes? a) 12	b) 14	c) 16	d) 18		
9.	Which of the following is the most widely used alphanumeric code for computer input and output?					
	a) Gray	b) ASCII	c) Parity	d) EBCDIC		
10. The hexadecimal equivalent of a decimal 14 is						
	a) "C"	b) "D"	c) "E"	d) "F"		
11. What is the addition of the binary numbers 11011011010 and 010100101?						
a) 0111001000		b) 1100110110		c) 111011111	11 d) 100	)11010011
12. Perform binary addition: 101101 + 011011 = ?						
a) 011010		b) 101	10100	c) 101110	d)100 <sup>2</sup>	1000

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