

i) 1000001₂ ii) 1000010₂ iii) 1000011₂ iii) 1000000₂

- 07) If 1000000₂ represents A in ASCII, Which of the following is represented by 1000101₂?
 - i) C ii) D iii) E iii) F

08)Which one is the smallest out of the following Binary Coded Decimal(BCD) representations?

- i) 00110110 ii) 00101000
- iii) 01011000 iii) 00011001

09) Which is the base value of the number system that consist of the digit set (0,1,2,3,4,5,6) ?

- i) 4
 ii) 5
 iii) 6
 iii) 7

 10) What is the MSD and LSD of the 0.102 respectively?
 - i) 0, 1 ii) 1, 0 iii) 1, 1 iii) 0, 0
- Complete the following table.

Number System	Base Value	Number and Alphabetic character used
Binary		
Octal	\sim	
Decimal	\vee	
Hexa -decimal		

• Do the following calculations and Show your computations.

- 01) Convert the Binary number 11111111 into the Decimal equivalent.
- 02) Convert the Binary number 11111111 into the Octal number equivalent.
- 03) Convert the Binary number 11111111111 into the Hexadecimal equivalent.
- 04) Convert the Decimal number 255 into the Binary equivalent.
- 05) Convert the Decimal number 255into the Octal number equivalent.
- 06) Convert the Decimal number 255into the Hexadecimal equivalent.

- 07) Convert the Octal number 377 into the Decimal equivalent.
- 08) Convert the Octal number 377 into the Binary number equivalent.
- 09) Convert the Octal number 377 into the Hexadecimal equivalent.
- 10) Convert the Hexadecimal FF into the Decimal equivalent.
- 11) Convert the Hexadecimal FF into the Binary number equivalent.
- 12) Convert the Hexadecimal FF into the Octal number equivalent.

• Write down the Short answers.

- 01) How many Bytes are in ¹/₂ MB?
- 02) The Most commonly used standard data code to represent alphabetical, numerical and punctuation characters used in electronic data processing system is called
- 03) 3 Kilobytes containbytes.
- 04) Why we used the Number system?
- 05) Why we used the Coding System?
- 06) Write down the ASCII coded of "Nalanda College" in binary numbers.

• Filling the blank.

Binary	Octal	Decimal	Hexa -decimal
110101001		425	
$\sim \gamma$	123		83
2		2748	ABC
11001110			
	345		