Enroll	No.		

Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous)

Affiliated to Saurashtra University, Rajkot

SEMESTER END EXAMINATION NOVEMBER - 2016 **B.Sc. Information Technology**

16UITCC02 - INFORMATION TECHNOLOGY & COMPUTER ARCHITECTURE

Duration of Exam – 3 hrs

ii) (15B) = ()2

Semester – I

Max. Marks – 70

$\underline{Part A} (10xI = 10 \text{ marks})$ Answer \underline{ALL} questions			
1.	Transistors replaced vacuum tubes in the generation of computers.		
2.	Full Form of MICR		
3.	Full form of CRT		
4.	Floppy diskette was originally created in 1967 by		
5.	1 Byte = bit.		
6.	Find the complement : 101101 =		
7.	In NOT gate the output signal is of input signal.		
8.	A combinational circuit that performs the arithmetic addition of two binary bits is called a		
9.	Full form of DR		
10.	Full form of LIFO.		
	$\underline{Part \ B} \ (5X5 = 25 \ marks)$		
	Answer <u>ALL</u> questions		
11a.	Explain Data Processing Cycle.		
OR 11b.	Explain types of Scanners.		
12a.	Explain any 3 Impact printers.		
OR 12b.	Explain Non impact printers.		
13a.	Find the answer: i) (1011011)2 = ()10 ii) (1011010101)2 = ()16		
OR			
13b.	Find the answer: i) (567)8 = ()2		

14a	Draw the logic circuit of following function. i) F = A'+B'C+AB ii) F=XYZ'+X'Y+Z
OR 14b	Explain two half adder is equal to one full adder.
15a OR	Explain 3X8 Decoder.
15b	Explain 4 bit buffer register in detail.
	$\underline{Part \ C} \ (5X7 = 35 \ marks)$ Answer $\underline{\mathbf{ALL}}$ questions
16a.	Explain Types of Input Devices.
OR 16b.	Explain Characteristics of the computer.
17a. OR	Explain types of External Storage.
17b.	Explain types of Internal Storage.
18a.	Find the answer: i) 101110101 X 1011011 ii) 10101/100
OR 18b.	Find the answer: i) 110110110 X 1101101 ii) 101101/110
19a	What is Logic gate? Explain types of logic gate in detail.
OR 19b	What is Flip flop? Explain SR Flip Flop & D Flip Flop.
20a	Explain ALU & Accumulator register in detail
OR 20b	What is register? Explain shift register in detail.