SARDAR PATEL UNIVERSETY

P.G.D.C.A.A. (I Semester) Examination Friday – 21st October 2016

10.**6**0 AM - 01:**0**0 PM

PS01CDCT02 - Logical Computer Organization

Total Marks [70] Multiple Choice Questions

V .	Muniple Choice Questions		[8]
1.	Numbers are stored and transmitted inside a computer in		
	A. Binary Form	B. ASCII Form	
	C. Decimal Form	D. Octal Form	
2.	The Base of Octal Number is _		
	A.8	B. 16	
	C. 10	D. 2	
3.	Full Form of ALU is		
	A. Arithmetic Logic Unit	B. Array Logic Unit	
	C. Application Logic Unit	D. None of above	
4.	An invert gate is also called a	gate.	
	A. NOR	B. NOT	
	C. XNOR	D. NAND	
5.	The OR gate has two or more in	put signals. If any input is, the	
٥.	Output is high.		
	A. high	B. low	
	C. both A and B	D. none	
6.	Ais logic circuit that can add two binary numbers.		
	A. binary Subtraction	B. Binary Adder	
	C. AND gate	D. OR gate	
7.	Half adder consist of	& Gates	
	A. XOR, AND	B. XOR, OR	
	C. XNOR, AND	D. XNOR, OR	
8.	In Full Adder and gates output is		
	A. Carry	B. Sum	
	C. Remainder	D. None	
Q-2	Answer the Following Questio	ns (Any Seven)	[14]
1	D.C. G.A.		. ,
1.	Define : Software with example	S	
2.	List out the applications of computer.		
3.	Explain binary number system		
4. 5	Binary to Decimal: $(1110)_2 = ($?)10	
5.	Octal to Decimal: $(127)_8 = (7)_8$?)10	
	•		IP.T.O1

6.	Explain NOT gate.			
7.	Defin	Define Gate? List out the basic Gate.		
8.	Draw	Draw the Diagram of the 8 * 3 Encoder.		
9.	Draw	the Truth Table of Half Adder		
Q-3	[A]	Draw the Block diagram of Computer and explain its functions.	[06]	
	[B]	Explain Storage Unit in Details.	[06]	
		OR		
	[B]	Explain First Generation and its characteristic.	[06]	
Q- 4	[A]	Explain binary number system and Calculate (701110) ₂ =(?) ₁₀	[06]	
	[B]	Differentiate between positional number System and Non – positional Number System.	[06]	
		OR		
	[B]	Explain octal number system and Calculate (12127) ₈ = (?) 10	[06]	
Q-5	[A]	Write a short note on AND Gate.	[06]	
-	[B]	Write a short note on NOR Gate.	[06]	
		OR		
	[B]	Write a short note on NAND Gate.	[06]	
Q-6	[A]	Explain 8x3 line encoder in detail	[06]	
Q v	[B]	Explain half adder in detail	[06]	
	[]	OR		
	ER1	Explain 4x1 multiplexer in detail.	[06]	

***** BEST OF LUCK *****

