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SARDAR PATEL UNIVERSITY

F.Y.B.Sc(CA & IT) -1stSEM Examination- 2019

US01CIIT23: Computer Organization & Digital Electronics

Date: 21/11/2019, Thursday Time: 10:00 A.M to 01:00 P.M

Total Marks 70

T IIIIC	. 10.00 7	[10]
Q1	Multiple Choice Question	
1	to be adviced refers to the	
	Allogical B) Physical C) Bata 2)	
2	and Collection to DOT 2D 10001 UNIL	
	A) Printer B)Scanner C)Keyboard D) None of above	
3	ie a nermanent memory.	
	A) EPROM B) EEPROM C) RAM D) ROM	
4	The Digital system usually operates on system	
	A) Dinary B) Decimal C) Octal D) Hexadourism	
5	The number 178 is equivalent to billiary.	
	A) 111 B) 110 C) 1000 D) 1111	
6	In Hexadecimal number system F stands for	τ
	A) 15 B) 14 C) 16 D) 12	
7	Half adder consists of & gates.	
	Half adder consists of & D) XNOR, OR A) XOR,OR B) XOR,AND C) XNOR, AND D) XNOR, OR gate.	
8	An invert gate is also known as gate.	
	A) NOR B) NOT C) XNOR D) NAND	
9	A multiplexer is also called a	
	A) Data Multiplier B) Data Selector	
	C) Data Inverter D) Data Remover is a memory element that stores binary digit.	
10	A) Binary Adder B) Decoder C) Multiplexer D) Flip-flop	
	A) Binary Adder B) Decoder C) Malapions E)	[20]
Q	2 Short Questions (Attempt any Ten)	
1,	Define the term 'Hardware' and 'Software'.	
_ 2	What is secondary storage?	
3	Give the Full Form 'EEPROM' and 'SSDD'	
4	What is 3-bits grouping conversion method? What is number system? List out various numbersystems.	
5	What is number system? List out various remains a What is number system? List out various remains a warmen of decimal to Octal method.	
6	Explain the conversion of decimal to Octal method.	
7	Explain NAND, OR Gate.	
8	Explain Associative Low.	
ç	Explain half adder in detail.	
. •	10 Define encoder in short.	
	11 Explain D Flip-flop.	60 T 00
	12 What is negative clocking?	(P.T.O)

Q3	· · · · · · · · · · · · · · · · · · ·	
Α	Explain Transfer rate	[05
В	Explain Printers in detail.	_
	OR	[05
Α	Draw a block diagram of basic organization of a computer system and	[03]
	explain the functions of the various units.	į į
В	List various applications of computer.	[07]
Q4		լսոյ
Α	Explain the conversion of Binary to Decimal with suitable example.	[05]
В	Explain binary addition with suitable examples.	
	OR	[05]
Α	Explain Hexadecimal to Decimal with suitable examples.	[UE]
В	Explain binary subtraction with suitable examples.	[05]
Q5		[05]
Α	Prove that ABC' +ABC=AB using truth table.	[OE]
В	Explain XOR, AND, NOR gate.	[05]
	OR	[05]
Α	Explain AND, NOR, NOT gate.	TO E1
В	Explain de Morgan's first and second theorem.	[05]
Q6		[05]
Α	Explain RS flip-flop with NOR Latches and NAND Latches.	[10]
A	Explain 8 x 3 line encoder and 4×1 demultiplexer in detail.	
	. The shoots and the full demuliplexer in detail.	[10]

