C.U.SHAH UNIVERSITY Summer Examination – 2019

Sul	-	ode: 4CS01ICO	Basics & Organiz 2 : 16/03/2019	zation Branch: B.Sc Time: 02:30 7		Marks: 70		
Ins	(2) Ins(3) Dr	se of Programma structions writter	n on main answer b s and figures (if ne	ny other electronic in book are strictly to be ecessary) at right plac	obeyed.	hibited.		
Q-1		Attempt the following questions:						
	 a) Convert the binary number to decima (a) 11 (b) 35 			imal: (1011) ₂ (c) 15	(d) 10			
	b)	The 1's complex (a) 01100010	ment of 10011101 (b) 10011110		(d) 01100)11		
	c)	The 2's complet	ment of 11100111 (b) 00011001		(d) 000110			
	d)	is an inpu (a) OMR	t device used to rea (b) OCR	ad a printed text. (c) MICR	(d) BCR			
	e)	CRT stands for						
	f)	Define term: Byte. List out types of number system. DVD stands for						
	g)							
	h)							
	i)	PROM stands for List out types of impact printers. Define term: interpreter. What is multiprogramming operating system?						
	j)							
	k)							
	I)							
	m)	Give full form of ASCII.						
n) USB stands for								
	pt any	-	rom Q-2 to Q-8					
Q-2	(1)	Attempt all questions:						
	(1)	Explain block diagram of computer.						
	(2)	Describe about characteristics of computer. (5)						



	(3)	List advantages and disadvantages of computer.	(4)
Q-3		Attempt all questions:	
	(1)	List out types of computer. Explain any one of them.	(5)
	(2)	What is bus? Explain types of bus.	(5)
	(3)	Write short note: fourth generation computer.	(4)
Q-4		Attempt all questions:	
	(1)	Explain: Scanner device.	(5)
	(2)	Describe about laser printer and inkjet printer.	(5)
	(3)	Write short note: MICR	(4)
Q-5		Attempt all questions:	
	(1)	Explain display device: LED and LCD.	(5)
	(2)	Differentiate between RAM and ROM.	(5)
	(3)	Write a short note: Magnetic disk.	(4)
Q-6		Attempt all questions:	
	(1)	Explain AND gate, OR gate and NOT gate with truth table.	(7)
	(2)	Describe about Half adder with diagram.	(7)
Q-7		Attempt all questions:	
	(1)	Explain 4 to 1 line multiplexer with diagram.	(5)
	(2)	Describe about multiprocessor operating system.	(5)
	(3)	Write a short note on: Wi-fi.	(4)
Q-8		Attempt all questions:	
	(1)	Explain: Simple duplex, Half duplex and Full duplex.	(5)
	(2)	Describe stack organization.	(5)
	(3)	Write short note: compiler.	(4)

