

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name : Computer Basics & Organization

Subject Code : 4CS01BCB1

Branch: BCA

Semester : 1

Date : 16/03/2019

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1	Attempt the following questions:	(14)
	a) Give full form of RAM.	1
	b) What is the base for Hexadecimal number system?	1
	c) 1 Byte = _____ bits.	1
	d) Give name of 2 input devices.	1
	e) Define computer.	1
	f) What is the full name of ASCII?	1
	g) Which gates are known as Universal gates?	1
	h) Full form of LCD is _____.	1
	i) $(10001)_2 + (111)_2 = (\text{_____})_2$	1
	j) 1 KB = _____ Bytes.	1
	k) $(15)_{10} = (\text{_____})_2$	1
	l) Joystick is an _____ device. (Input/Output)	1
	m) Write 2 advantages of computers.	1
	n) Write 2 disadvantages of computers.	1

Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
	A Describe the characteristics of computers.	7
	B Discuss the generations of computers.	7
Q-3	Attempt all questions	(14)
	A List various input devices and explain keyboard in detail.	7
	B What are the different types of Memory? Explain RAM.	7
Q-4	Attempt all questions	(14)
	A List various output devices and explain printers in detail.	8
	B Discuss types of ROM in detail.	6
Q-5	Attempt all questions	(14)
	A What is a logic gate? Explain AND, OR and NOT gates with truth tables.	7
	B Describe the Full adder circuit with diagram and truth table.	7



Q-6	Attempt all questions	(14)
A	Describe the Half subtractor circuit with diagram and truth table.	8
B	Explain Simplex, Half-duplex and Full-duplex transmission modes.	6
Q-7	Attempt all questions	(14)
A	Discuss Wi-fi and Bluetooth.	7
B	Explain Stack organization with PUSH and POP operations.	7
Q-8	Attempt all questions	(14)
A	Discuss OMR and OCR techniques in brief.	6
B	What is operating system? Explain types of Operating systems.	8

