

C.U.SHAH UNIVERSITY

Summer Examination-2020

Subject Name: Computer Basics & Organization

Subject Code: 4CS01BCB1

Branch: BCA

Semester: 1

Date: 28/02/2020

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) Define : Computer	1
	b) Define : Operating System.	1
	c) 1 Nibble = ___ bit.	1
	d) Write full form of RAM.	1
	e) Find 2's complement of (111)	1
	f) Find 1's complement of (10101110).	1
	g) $(0011)_2 = (?)_{10}$	1
	h) Define Interrupt.	1
	i) Write full form of DVD.	1
	j) Write full form of EEPROM.	1
	k) Write full form of LCD.	1
	l) Write the use of main frame computer.	1
	m) Write full form of Wi-Fi.	1
	n) Define : Memory	1

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

Q-2	Attempt all questions.	(14)
	(a) Draw and explain basic Block diagram of computer system.	07
	(b) Draw and explain Memory hierarchy in detail.	07
Q-3	Attempt all questions	(14)
	(a) Explain all Generations of computer.	07
	(b) Explain Adder with its types, logical circuit diagram and truth table.	07
Q-4	Attempt all questions	(14)
	(a) Explain Assembler, Compiler and Interpreter.	07
	(b) Do as directed :	07
	1. $(210)_{10} = (?)_2$	



2. $(10110111)_2 = (?)_8$
3. $(10101001) + (11010)$
4. $(110100) - (11110)$
5. $(15)_8 = (?)_2$
6. $(11010111) + (11000)$
7. $(011011) + (11010)$

- Q-5** **(14)**
- (a) Explain LCD monitor working in detail **07**
- (b) Explain Printer with its types. **07**
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- Q-6** **(14)**
- (a) Write a short note on : Bluetooth **04**
- (b) Write a short note on : OMR **03**
- (b) What do you mean by Scanner? Explain with its types. **07**
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- Q-7** **(14)**
- (a) Explain Asynchronous Data Transfer. **03**
- (b) What do you mean by RPN? Explain with example. **04**
- (c) Explain any two types of Operating System. **07**
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- Q-8** **(14)**
- (a) Explain Stack Organization with its PUSH & POP operation. **04**
- (b) Write a short note on : GPS **03**
- (c) Explain 4:1 MUX in detail. **07**

