

C.U.SHAH UNIVERSITY

Winter Examination-2019

Subject Name : Computer Basics & Organization

Subject Code : 4CS01ICO2

Branch: B.Sc.IT

Semester : 1

Date : 19/11/2019

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)

1. 1 Nibble = _____ bit.
2. Plotter is _____ type of device.
3. What is Operating system?
4. ASCII stands for _____.
5. Stack pointer always point to _____ of the stack.
6. _____ is the base of hexadecimal number system.
7. Conversion: $(1000101)_2 = (\text{_____})_8$
8. MICR Stands for _____.
9. 1's Complement of 1010010 is _____.
10. What is computer?
11. Conversion: $(152)_8 = (\text{_____})_{16}$
12. OCR Stands for _____.
13. What is Bluetooth?
14. BCD Code has _____ bits.

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

Q-2 Attempt all questions (14)

- a) Do as directed: **07**
- a) $(532.11)_{10} = (\text{_____})_2$
 - b) $(11010111.111)_2 = (\text{_____})_8$
 - c) $(353)_{10} = (\text{_____})_{16}$
 - d) $(4A9.2B)_{16} = (\text{_____})_{10}$
 - e) Binary Addition: $00011010 + 10001100$
 - f) Binary Subtraction: $10110101 - 00101101$
 - g) 2's Complement : 111011101
- b) Draw a neat block diagram of computer & Explain it. **07**

Q-3 Attempt all questions (14)

- a) What is Printer ? Explain it with its types. **07**
- b) Write a short note on types of computer based on its size. **07**



Q-4	Attempt all questions	(14)
a)	What is adder? Explain Half adder with its block diagram, circuit and truth table.	05
b)	What are gates? Explain basic gates(AND,OR & NOT) with its symbol and truth table.	05
c)	Explain Assembler and Compiler.	04
Q-5	Attempt all questions	(14)
a)	Explain Duplex System	07
b)	What are types of operating system? Explain any 3 types of operating system.	07
Q-6	Attempt all questions	(14)
a)	Write a note on Bluetooth ? Explain Piconet and Scatternet.	07
b)	Write a note on Asynchronous data transfer.	07
Q-7	Attempt all questions	(14)
a)	Explain in detail : Generation of computer	07
b)	Explain memory hierarchy in detail.	07
Q-8	Attempt all questions	(14)
a)	List out Input device & Explain any 3 Input devices.	07
b)	What is Monitor? Explain CRT and LCD.	07

