



Seat No: \_\_\_\_\_

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[30]

**SARDAR PATEL UNIVERSITY**

**BCA (Semester – I)-(NC) Examination 2022**

**[US01CBCA25]: Fundamental of Computer Organization**

**Saturday, 17<sup>th</sup> December 2022**

**Time: 10.00am to 1.00pm**

**Total Marks: 70**

**Note: Figure indicates right side is maximum marks for each question**

**Que: 1 Select an appropriate option for the following statements.**

**[10]**

1. Which parts of the computer perform arithmetic calculations?

[A] ALU                      [B] Registers                      [C] Logic Bus                      [D] Input Device

2. Numbers are stored and transmitted inside a computer in \_\_\_\_\_

[A] Binary Form                      [B] ASCII code form                      [C] Decimal form                      [D] Alphanumeric form

3. ALU is,

[A] Arithmetic Logic Unit                      [B] Array Logic Unit  
[C] Application Logic Unit                      [D] None of these

4. ASCII equivalent of B is \_\_\_\_\_

[A] 66                      [B] 67                      [C] 68                      [D] 65

5. ASCII stands for \_\_\_\_\_

[A] America standard coded information interchange  
[B] American standard code for information interchange  
[C] America standard coded interchange information  
[D] American standard coded interchange information

6. Extra bit added to a string of bits to detect errors is known as \_\_\_\_\_

[A] Additional bit                      [B] Correction bit                      [C] Parity bit                      [D] Updation bit

7. Array processor is referred as \_\_\_\_\_

[A] SISD                      [B] SIMD                      [C] MISD                      [D] MIMD

8. A pipeline referred as \_\_\_\_\_

[A] SISD                      [B] SIMD                      [C] MISD                      [D] MIMD

9. Which one is the pointing device?

[A] Scanner                      [B] Key board                      [C] Mouse                      [D] None of these

10. Monitor is made up of \_\_\_\_\_

[A] CRT                      [B] CPU                      [C] Keyboard                      [D] None of these

**Que: 2 Answer the following questions in brief: (Attempt any Ten)**

**[20]**

1. Explain software with example.
2. List applications of computer.
3. Explain features of fifth generation of computer.
4. Explain 1's complement method with example.
5. What is even parity?
6. Write steps of Instruction Execution Cycle.
7. What is primary memory?
8. What is ROM?
9. What is the benefit of PROM over EPROM?
10. What is Keyboard?
11. Give difference between Input Device and Output Device.
12. Explain monitor.

**Que: 3 [A] Draw and explain Block diagram of computer with its functions.**

**[05]**

**[B] Explain Binary number system with example.**

**[05]**

**OR**

**Que: 3 [A] Explain fourth Generation of computer.**

**[05]**

**[B] Explain Octal number system with appropriate example**

**[05]**

**Que: 4 [A] Write a note on error detection and correction code with example.**

**[05]**

**[B] Discuss about ASCII code with suitable example.**

**[05]**

**OR**

**Que: 4 [A] Discuss CPU organization with diagram.**

**[05]**

**[B] Discuss excess notation with example.**

**[05]**

**Que: 5 [A] Write a note on floppy disk.**

**[05]**

**[B] Draw and explain array processor.**

**[05]**

**OR**

**Que: 5 [A] Write a note about cache memory.**

**[05]**

**[B] Explain Pipelining machine with diagram.**

**[05]**

**Que: 6 What is Scanner? Discuss all its types in detail.**

**[10]**

**OR**

**Que: 6 Write a detail note about Addressing Techniques.**

**[10]**

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