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

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SARDAR PATEL UNIVERSITY  
BCA SEM : I EXAMINATIONS 2019  
US01BCA02 COMPUTER ORGANIZATION

DATE : 15/11/2019, Friday

TIME : 02.00 P.M TO 05.00 P.M

TOTAL MARKS : 70

- Q.1
- \_\_\_\_\_ performs arithmetic calculations in computer? [10]  
a. ALU b. Registers c. logic Bus d. Input device
  - \_\_\_\_\_ generation of computer developed using Vacuum Tube?  
a. First b. Second c. Third d. Forth
  - MSI stands for \_\_\_\_\_  
a. Medium Scale Integration b. Medium System Integration  
c. Medium Scale Intelligent d. Medium System Intelligent
  - ASCII equivalent of A is \_\_\_\_\_  
a. 97 b. 65 c. 66 d. 98
  - Storage of 1 KB means the following number of bytes  
a. 1000 b. 1024 c. 1028 d. 256
  - The number of digits in octal system is \_\_\_\_\_  
a. 07 b. 08 c. 2 d. 10
  - A byte corresponds to \_\_\_\_\_  
a. 8 bits b. 4 bits c. 16 bits d. 32 bits
  - Extra bit added to a string of bits to detect errors is known as \_\_\_\_\_  
a. Additional Bit b. Parity Bit c. Correction Bit d. Updation Bit
  - Array processor is referred as \_\_\_\_\_  
a. SISD b. MIMD c. SIMD d. MISD
  - In pipeline \_\_\_\_\_ unit Execute the instruction.  
a. Fetch b. Decode c. Write Back d. Execution

- Q.2 Short Questions : ( Any 10 ) [20]
- Define Hardware and Software
  - List application of computer
  - List all generations of computer
  - $(10)_{10} = (?)_2$
  - What is number system? List all number system
  - Discuss Binary addition
  - Explain 1's complement method with example
  - Explain odd and eve parity
  - Explain ASCII character code with example
  - Define Input device and output device
  - Explain concept of catch memory
  - What do you mean by Latency?

- Q.3 [A] Explain first, second and third generation of computer [05]  
[B] Write a note on : hexadecimal number system [05]
- OR
- [A] Discuss block diagram of computer with its all major functions [05]  
[B] Write a note on : binary number system [05]

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- Q.4 [A] Explain excess notation with example [05]  
[B] Discuss hamming code with example [05]  
OR  
[A] Explain Von Neumann machine [05]  
[B] Write a note on : error detection and correction [05]
- Q.5 [A] Explain pipelining machine in detail [05]  
[B] Write a note on : Hard disk [05]  
OR  
[A] Discuss array processors with diagram [05]  
[B] Write a note on : Registers [05]
- Q.6 [A] Discuss types of printers in detail [10]  
OR  
[A] Explain any two addressing techniques with example [10]

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