

SARDAR PATEL UNIVERSITY
B. C. A. (I Semester) Examination (C.N.C.)
7th April 2016 (Thursday)
2.30 pm – 5.30 pm
US01CBCA02 : COMPUTER ORGANISATION

Total Marks : 70

- Q-1 Multiple Choice Question.[Each Question carries one Mark] [10]
- 1) Numbers are stored and transmitted inside a computer in

A. binary form	B. ASCII code form
C. decimal form	D. alphanumeric form
 - 2) Which generation of computer developed using Vacuum Tube ?

A. First generation	B. Second generation
C. Third generation	D. Forth generation
 - 3) $1111_2 + 11111_2 =$ _____

A. 101111	B. 101110
C. 111111	D. 011111
 - 4) ASCII equivalent of a 9 is _____

A. 56	B. 57
C. 58	D. 59
 - 5) 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
 - 6) If A=0 1 000001 then odd parity for this string is _____

A. 11000001	B. 01000001
C. 10000001	D. 01001000
 - 7) Multiprocessor is referred as _____

A. SISD	B. SIMD
C. MISD	D. MIMD
 - 8) In pipeline _____ unit locates and fetches the operands either from register or from memory.

A. Fetch	B. Decode
C. Execution	D. Fetch
 - 9) If there is a mechanical contact between the print head and paper then this kind of printer is known as

A. Impact printer	B. non-impact printer
C. normal printer	D. none of these
 - 10) Which one is output device?

A. keyboard	B. Scanner
C. mouse	D. plotter

[PTO]

- Q-2 Give Answers for the following:(Any ten) [20]
- 1 Define : Software with examples.
 - 2 What is number system? List all number systems.
 - 3 List applications of computer.
 - 4 Explain odd and even parity.
 - 5 List steps of Instruction Execution cycle.
 - 6 Explain 1's complement method with example.
 - 7 Explain RAM.
 - 8 What do you mean by Latency?
 - 9 What is the benefit of PROM over EPROM?
 - 10 Define direct addressing.
 - 11 Define Dot matrix printer.
 - 12 Give two differences between input device and output device.

- Q - 3 A) Draw the Block diagram of Computer and explain its functions. [5]
B) Explain binary number system and convert $(10101111)_2$ (binary number) into octal , hexadecimal and decimal number system. [5]

OR

- Q - 3 A) List generations of computers and explain any two generation in detail. [5]
B) Explain decimal number system and convert $(225)_{10}$ (decimal number) into binary, octal and hexadecimal number system. [5]

- Q - 4 A) Explain Hamming code method with example. [5]
B) Explain instruction execution cycle with Von Neumann machine. [5]

OR

- Q - 4 A) Explain UNICODE. [5]
B) Explain CPU organization with diagram. [5]

- Q - 5 A) Explain pipelining. [5]
B) Explain the role of Registers in computer storage. [5]

OR

- Q - 5 A) Explain multiprocessor. [5]
B) Explain Hard Disk with diagram. [5]

- Q - 6 List Addressing Techniques and explain any three in detail with examples. [10]

OR

- Q - 6 List input devices and explain any three input device in detail. [10]