Date: 01/10/2013   Time: 01:00 P.M to 02:30 P. M   Total Marks: 30

Q.1 Multiple Choice Questions (6)

1. The Hexadecimal Number System consist digit
   [a] 0 and 1   [b] A-F   [c] 0 to 9   [d] both b and c

2. Radix in the binary Number System is
   [a] 0 and 1   [b] 1 and 2   [c] 5 and 6   [d] None of above

3. ASCII equivalent of a 9 is
   [a] 56   [b] 57   [c] 58   [d] 59

4. MIMD is _____
   [a]Multiple Instruction Multiple DataStream
   [b]Multiple Items Multiple Data
   [c] Multiple Instruction Multiple Database
   [d] None of above

5. Floppy Disk is a _____
   [a] Removable Disk   [b] Permanent Disk
   [c]Direct access disk   [d] None of above

6. What is the full form of PROM
   [a]Programmable ROM   [b] Perfect ROM
   [c]Process read write memory   [d] Project read only memory

Q.2 Answer the following questions in short [Any 3] (6)

1. Define hardware with example.
2. Explain the conversion of Binary to Hexadecimal and Hexadecimal to Binary with example.
3. Explain Signed Magnitude Method with example
4. List stages of pipelining
5. Explain cache memory
6. Write the significance of Accumulator Register

Q .3 [A] Write short note on First Generation of computer (3)
[B] Convert $(3BFH41.AD)_{16} = (?)_8$ (3)

OR

Q. 3 [A] What is number system? List the radix of Binary, Octal, Hexadecimal and Decimal (3)
[B] Addition $(110011.0010)_2 + (1011.0010)_2 = (?)_2$ (3)

Q.4 Explain instruction execution cycle with Von Neumann machine. (6)

OR

Q.4 Write a note on error detection and correction code with example. (6)

Q.5 What is Primary Memory? Explain any three of them. (6)

OR

Q .5 Explain Hard Disk with advantage and disadvantage. (6)