ASSIGNMENT-I KNREDDY

COMPUTER ORGANIZATION & ARCHITECTURE

ASSIGNMENT-I

- 1. Given R=10, PC=20, and index register X=30 show the value of the accumulator for the following instructions. All memory locations Q contain the value Q+1. Each instruction uses two memory locations.
 - a) LDAC 10
 - b) LDAC @10
 - c) LDAC R
 - d) LDAC (R)
 - e) LDAC #10
 - f) LDAC \$10
 - g) LDAC 10(X)
- 2. Show the code to perform the computation X=A+(B*C)+D using microprocessors that uses the following instruction formats. Do not modify the values of A, B, C, D. If necessary use temporary location T to store intermediate results
 - a) Three address instruction
 - b) Two address instruction
 - c) One address instruction
 - d) Zero address instruction
- 3. Show the code to perform the computation X=**A*****B*****C**+**D***(**E**+**F**) using microprocessors that uses the following instruction formats. Do not modify the values of A, B, C, D, E, F. If necessary use temporary location T to store intermediate results
 - a) Three address instruction
 - b) Two address instruction
 - c) One address instruction
 - d) Zero address instruction
- 4. Show the internal linear configuration of a 32 X 2 memory chip
- 5. Show the internal two-dimensional configuration of a 32 X 2 memory chip
- 6. Describe a simple computer architecture