Assignment No. I

Subject:- Microcontroller and its Applications

NEC-022

Q.1 Draw and explain the functional block diagram of a microcontroller.

Q.2 Discuss the advantages of microcontroller over microprocessor in control applications

Q.3 Explain RISC and CISC processor.

Q.4 Explain PSW of 8051 microcontroller with example for each bit.

Q.5 Explain the Program Memory and Data Memory Organization of 8051 microcontroller.

Q.6 Explain the Role of Stack and Stack Pointer in 8051 microcontroller.

Q.7 Explain the function of following instruction

   (i) ALE   (ii) $\overline{\text{PSEN}}$ (iii) EA

Q8 Explain the 16-bit registers DPTR of 8051.

Q.9 Explain with examples the PUSH and POP instructions.

Q.10 Explain the Block diagram of 8051 microcontroller.

Last Date of Submission is : - 08/02/2017 (Positively by Lunch)

Mr. Ajay Dwivedi
Asst. Prof.
EC Dept.