Advanced Microprocessor (2181006)

Assignment – 1

Submission Date: 18/01/2017

Sub: Advanced Processor

1. Write the internal architecture of 8086 microprocessor.
2. Explain the data movement instruction in detail.
3. What is pipelining? How it is achieved in 8086 microprocessor?
4. What are the advantages of segmentation in 8086?
5. Write the difference between 8086 and 8088 microprocessor.
6. Short note on 8086 memory banks.
7. List out the addressing modes of 8086 microprocessor and explain the memory addressing modes with example.
8. Explain the function of following pins of 8086.

   (i) Ready (ii) INTR (iii) S3 and S4 (iv) NMI (v) RESET

   (vi) HLDA (vii) QS1 and QS0

Assignment – 2

Submission Date: 27/02/2017

Sub: Advanced Processor

1. Explain the Arithmetic and string instruction in detail.
2. Reentrant and recursive procedure.
3. Write a short note on macro.
4. Explain the assembler directives.
   EXTERN, PUBLIC, ALIGN, EQU, DB, DT, PAGE, LENGTH
5. Explain Interrupt vector table.
6. Explain hardware and software interrupt.
7. Write assembly language program to convert given string from uppercase to lowercase.

Assignment – 3

Submission Date: 30/03/2017

Sub: Advanced Processor

1. Draw block diagram of microprocessor 80186 and describe basic features of 80186.
2. Write short note on 80286.
3. List the special features of Pentium processors.
4. Write short note on 80486 Microprocessor.
5. Explain Memory Management in 80386 Microprocessor.
6. Contrast the Pentium with the Pentium Pro Microprocessor.