DOON UNIVERSITY, DEHRADUN
Mid Semester Examination, Fourth Semester, 2015-16
School of Technology
M.C.A. (Integrated)
STM-521: Microprocessor and Applications

Time Allowed: 2Hours   *Maximum Marks: 30*

Note: Attempt All Questions from Sections A, B, C.

SECTION: A   *(Marks: 6X 1=6)*

1. Describe the following in short.

   A. Micro computer.
   B. Carry Flag
   C. Register Addressing Mode
   D. ALU
   E. LSI
   F. Two Shortcoming of assembly language

SECTION: B   *(Marks: 3X4=12)*

1. Write in detail about the architecture of 8086 microprocessor.

2. Describe the various types of addressing modes in 8086 microprocessor.

3. How an assembly language programming is different from high level programming. Write two uses of the assembly language. Write a program to add two 8 bit numbers stored in same segment,

SECTION: C   *(Marks: 2X6=12)*

1. Register set of 8086 microprocessor consist of 14 registers. Draw a block diagram of these registers. Write in detail about the index and pointer register. What are the roles of segment registers?

2. Write down the types of instructions in Instruction set of 8086. How physical address is generated in 8086.