Class Test-02

CS5469: Microprocessor and Microcontrollers

Answer the following questions:

1) What are the basic functions of BIU and EU in 8086 microprocessors?
2) Explain the significance of each bit in the flag register of 8086 microprocessors.
3) What happens to the stack pointer after (a) Push operation (b) Pop operation in 8086?
4) Explain the instructions DIV CL and DIV CX in 8086.
5) List any five 8086 assembler directives and their functions
6) Write an 8086 ALP to compute average of 5 numbers.
7) Write an 8086 ALP to compute product of 5 numbers stored in an array
8) How to compare a byte in one string with a byte in another string using an 8086 microprocessor?
9) If DS=6000H, BX=1000H, how is the effective address and physical address computed for the following instruction: MOV CX, [BX+0003H]. At the end of the execution of the above instruction, what will be the content of CL register?
10) Identify the addressing modes of the following instructions:

    MOV BL, 26H

    MOV BX, CX

    MOV [DI], BX

    MOVS BYTE

Note: Answers to each of the above questions carries 1 mark