

Class Test #01

Date: 31/5/2021

Time: 20mins

1. The following statements are part of a continuous program. Fill up the values of the appropriate flags after sequential execution of each instruction.
AX = OFFFH, BX = 8000H, CX = 0001H, DX = 8001H [6]
 - (i) ADD AX, CX
 - (ii) SUB BX, CX
 - (iii) DEC, DX
 - (iv) NEG DX
 - (v) ROR DX, 3
 - (vii) TEST DX, DX
2. Write an assembly language program to calculate Fibonacci series and store it in a byte type array. You must calculate the Nth Fibonacci number using a recursive procedure. [8]
3. For each of the following statements, state the addressing modes of the source and destination operands. [6]
 - (i) MOV BX, 1000H
 - (ii) MOV DI, 1008H
 - (iii) LEA SI, B ;B is an array
 - (iv) MOV BYTE PTR [SI], 3
 - (v) MOV AX, B[BX+SI+2]
 - (vi) MOV [BX] + B, CX