Vacional University



Student Name: SGLUTION

Program: BCS

Semester: Fall-2022

Time Allowed: 20 Minutes

Course: COAL

| Roll No: | |
|----------|--|

Total Marks: 6 Weightage: 4

Date: 20th October, 2022

Quiz 02

Sort the given "data" using following assembly language program. Mention the total number of iterations as per given program. Also mention total number of iterations required to completely sort the data.

[org 0x0100] mov cx, 3

outerloop: mov bx,0

innerloop: mov ax,[data+bx] cmp ax ,[data+bx+2]

jna donothing mov dx, [data+bx+2] mov [data+bx+2], ax mov [data+bx], dx mov byte [swap], 1

donothing: add bx,2 cmp bx,6 jne innerloop cmp byte [swap], 0

je exit loop outerloop

exit: mov ax,0x4c00 int 0x21

data: dw 1, 5, 4, 6, 7 swap: db 0

Total number of iterations as

ber siner broduct = 3

Iterations required in actual = [1]