

Ahsanullah University of Science & Technology

<u>Department of Computer Science & Engineering</u> <u>Lab Final Examination, Fall - 2019</u>

Course No: CSE2214

Course Title: Assembly Language Programming Sessional

Date of Examination: 16.09.2020

Submitted By-

Group : A1

Name : Mahin

Id : 17.02.04.006

Section: A

Question No: 01
Question:
Write an assembly code to perform the following: if AX contains a negative
number, put -1 in BX; if AX contains 0, put 0 in BX; if AX contains a positive

Answer: .MODEL SMALL .STACK 100H .DATA

number, put 1 in BX.

.CODE

MAIN PROC

MOV AX,-1 CMP AX,0 JL NEGETIVE JE ZERO JG POSITIVE

NEGETIVE: MOV BX,-1 JMP RETURN

ZERO:

MOV BX,0 JMP RETURN

POSITIVE: MOV BX,1

RETURN: MOV AH,4CH INT 21H

MAIN ENDP END MAIN

Question No: 02

Question:

Write an assembly code to calculate the sum of the following series. Put the

sum in AX.

1+5+9+13+...+41

Answer: .MODEL SMALL **.STACK 100H** .DATA .CODE **MAIN PROC** MOV AX, 0 MOV BX, 1; **START:** ADD AX, BX **CMP BX, 41 JE DONE** ADD BX, 4 **JMP START** DONE: MOV AH, 4CH **INT 21H**

MAIN ENDP

END MAIN

Question No: 03

Question:

Answer: