

COAL
DS Fall 2022 Afternoon
Quiz 2

Time allowed: 10 min

Total marks: 20

Roll Number: _____

Name: _____

Q1: [5+5+5]

For the following instructions, Give the destination contents and the new settings of Carry, Overflow, Sign and Zero Flags. (Suppose that initially all flags are reset)

- a) ADD AX, BX
 where AX =5132 BX =9000

AX	carry	overflow	Sign	zero
E132	0	0	1	0

- b) SUB CX, DX
 where CX = A2F5 DX =734A

CX	carry	overflow	sign	Zero
2FAB	0	1	0	0

- c) MOV AX, DX
 where AX =1234 DX =F2CD

AX	carry	overflow	sign	Zero
F2CD	0	0	0	0

Q2:

How many times the loop will be executed in the following code?

[2.5]

```
      Mov ch,FCh
aa:   Mov dl,'A'
      Mov ah,02
      inc ch
      Jnz aa
```

4 Times

Q3:

How many times the loop will be executed in the following code?

[2.5]

```
      Mov cx,0
aa:   Mov dl,'A'
      Mov ah,02
      Dec cx
      Jnz aa
```

FFFF+1 Times