

Assembly language and Microprocessors

Quiz 2 B

الاسم:

الرقم الجامعي:

Understand the following code sections and insert the missing instruction or instructions in order to accomplish the required task.

- 1) Subtract the decimal numbers 71 and 43

```
MOV AL,71H
```

```
SUB AL,43H
```

DAS

- 3) Subtract the two ASCII numbers 3, 9

SUB AH, AH

```
MOV AL, '3'
```

```
SUB AL, '9'
```

AAS.

```
OR AL, 30H
```

- 3) Complement the ASCII of the number 15.

```
MOV BX, 3135H
```

XOR BX, FFFFH

- 4) Set bits 5, 6, and 9 in the word sized memory location NUM

OR NUM, 0260H

- 5) Multiply the contents of the DX register by 20 without using the MUL instruction

```
MOV DX, 25
```

SHL DX, 2

MOV AX, DX

SHL DX, 2

```
ADD AX, DX
```

If CX contains 1101011100011001 as shown in fig then the result of the instruction

ROR CX,5 is

C	-----CX-----																
	1	1	1	0	1	0	1	1	1	0	0	0	1	1	0	0	1
C	-----CX-----																
	1	1	0	0	1	1	1	0	1	0	1	1	1	0	0	0	1