

Assembly language and Microprocessors
Quiz 2 A

الاسم:

الرقم الجامعي:

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

1) Multiply the contents of the BX register by 36 without using the MUL instruction

```
MOV BX, 12
SHL BX, 2.
MOV AX, BX
SHL BX, 3
ADD AX, BX
```

2) Divide the unpacked BCD 37 by 5 to obtain a decimal answer.

```
MOV AX, 0307
AAD
MOV BL, 5 ;
DIV BL
```

Find the result of executing the following code by filling the blanks:

```
MOV AX, 38H ; AX = 0038H
ADD AL, 33H ; AX = 006BH
AAA ; AX = 0101H
OR AX, 3030H ; AX = 3131H

SUB AH, AH ; AH = 00H
MOV AL, '8' ; AL = 38H
SUB AL, '9' ; AL = FDH
AAS ; AX = FF07H
OR AL, 30H ; AL = 37H
```

If CX contains 1101011100011001 as shown in fig then the result of the instruction RCR CX,4 is

