

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) Add the decimal numbers 1234 and 3099

```
MOV DX, 1234H
MOV BX, 3099H
MOV AL, BL
ADD AL, DL
```

_____ **DAA**

```
MOV CL, AL
MOV AL, BH
```

_____ **ADC AL, DH**
_____ **DAA**

```
MOV CH, AL
```

2) Multiply the two decimal numbers 5 and 7 and change the result into two-digit ASCII number

```
MOV AL, 5
MOV BL, 7
```

MUL BL

AAM

```
OR AX, 3030H
```

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

```
MOV AX, 31H ; AX = 0031...H
```

```
ADD AL, 39H ; AX = 006A H
```

```
AAA ; AX = 00100H
```

```
OR AX, 3030H ; AX = 3130.H
```

```
SUB AH, AH ; AH = 00.H
```

```
MOV AL, '3' ; AL = 33.H
```

```
SUB AL, '9' ; AL = FA.H
```

```
AAS ; AX = FF04H
```

```
OR AL, 30H ; AL = 34H
```

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

