Assembly Quiz-2(H)

Total Marks: 10

Time Allowed: 15 min

Q1. In the following code, tell whether the jump will be taken or not. Show each and every step to get marks. [Marks 5]

mov ax, 0x7BFE mov bx, 0xFFE1 add ax, bx jo exit

Q2. Suppose AX contains any 16-bit number. Write a piece of code that clears 4th bit, set 14th bit and complements 7th bit of the number in ax register. [Marks 5] (Numbering start from right side i.e., 0th bit is the least significant bit.)

After add ax, bx (17BDFh)

ax = 7BDFh (Discord MSB)

Adding negative to a positive humber gives us a positive number, so there is no overflow and jump is not taken.

2. and ax, FFEFh or ax, 4000h xar ax, 0080h

Assembly Quiz-2(H)

Total Marks: 10

Time Allowed: 15 min

Q1. In the following code, tell whether the jump will be taken or not. Show each and every step to get marks. [Marks 5]

mov ax, 0x7720 mov bx, 0x8601 add ax, bx jo exit

Q2. Suppose AX contains any 16-bit number. Write a piece of code that clears 7th bit, set 2nd bit and complements 13th bit of the number in ax register. (Numbering start from right side i.e., 0th bit is the least significant bit.)

| I. $ax = 17720h$ $bx = 18601h$ After odd ax, bx (Beach) | 7720 8601 FD21. |
|---|-----------------------|
| ax = EROM FDIN | in her. after US |

Adding negative to a positive number gives us a negative number, so there is no averflow and jump will not be taken.

2. and ax, all FF7Fh or ax, 0004h xor ax, 4000h