

assembly - 1106(H.W)

1. What will be the value of BX after the following instruction execute?

```
mov bx, 0FFFFh  
and bx, 6BH
```

ANSWER: 6Bh

2. What will be the value of BX after the following instructions execute?

```
mov bx, 91BAh  
and bx, 92h
```

ANSWER: 92h

3. What will be the value of BX after the following instructions execute?

```
mov bx, 0649Bh  
or bx, 3Ah
```

ANSWER: 64BBh

4. What will be the value of BX after the following instructions execute?

```
mov bx, 029D6h  
xor bx, 8181h
```

ANSWER: A857h

5. What will be the value of EBX after the following instructions execute?

```
mov ebx, 0AFAF649Bh  
or ebx, 3A219604h
```

ANSWER: 0BFBFF69Fh

6. What will be the value of RBX after the following instructions execute?

```
mov rbx, 0AFAF649Bh  
xor rbx, 0FFFFFFFFh
```

ANSWER: 00000000F0509B64h

7. In the following instruction sequence, show the resulting value of AL where indicated, in binary:

ANSWER: a - 00101101b / b - 01001000b / c - 01101111b / d - 10100011b

8. In the following instruction sequence, show the resulting value of AL where indicated, in hexadecimal:

ANSWER: a - 85h / b - 34h / c - BFh / d - AEh

9. In the following instruction sequence, show the values of the Carry, Zero, and Sign flags where indicated:

ANSWER: a. CF=0, ZF=0, SF=0 / b. CF=0, ZF=0, SF=0 / c. CF=1, ZF=0, SF=1

10. Which conditional jump instruction executes a branch based on the contents of ECX?

ANSWER: LOOP 명령어

11. How are JA and JNBE affected by the Zero and Carry flags?

ANSWER: JA와 JNBE는 CF=0이고 ZF=0일 때 점프한다.

12. What will be the final value in EDX after this code executes?

ANSWER: 0

13. What will be the final value in EDX after this code executes?

ANSWER: 1

14. What will be the final value in EDX after this code executes?

ANSWER: 0

15. (True/False): The following code will jump to the label named Target.

ANSWER: False

16. (True/False): The following code will jump to the label named Target.

ANSWER: False

17. What will be the value of RBX after the following instructions execute?

ANSWER: 80h

18. What will be the value of RBX after the following instructions execute?

ANSWER: 808080h

19. What will be the value of RBX after the following instructions execute?

ANSWER: 80808080h