Name _____

Student ID _____

Section _____

Subject: CSE 331 –Fall 2022

Quiz 2 (Fall 2022)
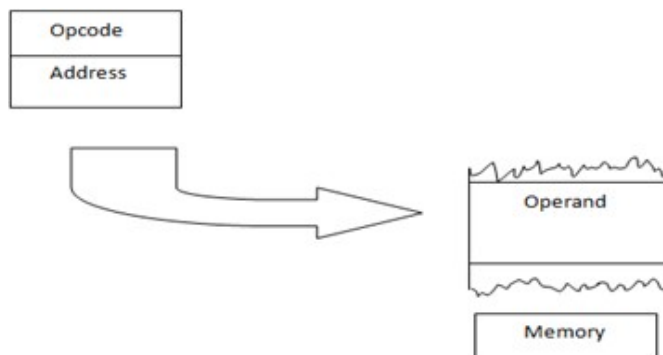
Score _____

1. MOV AX, [0500] is an example of
   (A) direct addressing mode
   (B) immediate addressing mode
   (C) indexed addressing mode
   (D) register mode

2. MOV CX, [481d] ; assuming DS=2162H, logical address will be :
   (A) 2162:01E1
   (B) 481:2162
   (C) 26301H
   (D) 2162:481

3. MOV AL, 4929H ; what will be the value of AL after execution ?
   (A) 29H
   (B) 49H
   (C) 01001001b
   (D) 4929H

4.

which type of addressing mode the figure refers to ?
   (A) immediate addressing mode
   (B) direct addressing mode
   (C) both A and B
   (D) none

5. What is the command used

(A) PUSH

(B) POP

00F2H	
00F4H	
00F6H	
00F8H	
00FAH	
00FCH	
00FEH	
0100H	

← SP

After the call, _____ AX

00F2H	
00F4H	
00F6H	
00F8H	
00FAH	
00FCH	
00FEH	
0100H	AX

← SP (at 00FEH)

6. what is the command used

(A) PUSH CX

(B) POP CX

(C) POP [00FCH]

(D) Both B and C

At the beginning.

00F2H	
00F4H	
00F6H	
00F8H	
00FAH	
00FCH	CX
00FEH	BX
0100H	AX

← SP (at 00FAH)

After the call, _____

00F2H	
00F4H	
00F6H	
00F8H	
00FAH	
00FCH	
00FEH	BX
0100H	AX

← SP (at 00FCH)

7. What is the value of BX after execution

(A) 1212H

(B) 3434H

(C) 1212

(D) 3434

```
MOV   AX, 1212h   ; store 1212h in AX.
MOV   BX, 3434h   ; store 3434h in BX

PUSH  AX          ; store value of AX in stack.
PUSH  BX          ; store value of BX in stack.

POP   AX          ; set AX to original value of BX.
POP   BX          ; set BX to original value of AX.
```
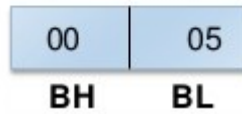
8. what is the value of AH and BL after execution?

(A) 05, 1A

(B) 00,05

(C) 1A,00

(D) 1A,05

XCHG *AH, BL*

1A	00
AH	AL

00	05
BH	BL

9. what is the value of AL after execution?

(A) 35H

(B) 7CH

(C) 29

(D) none

AL = 53   CL = 29

ADD AL, CL

DAA

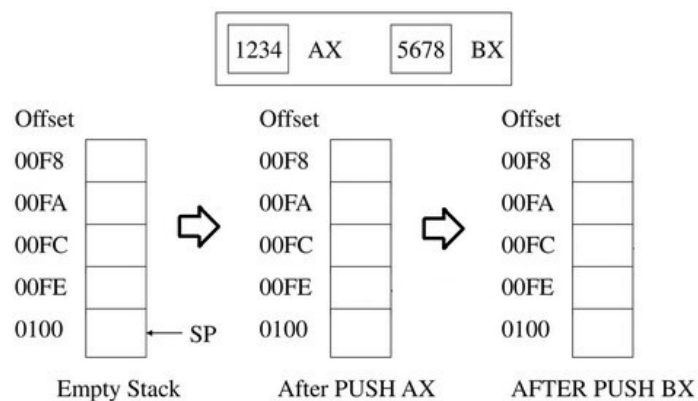**10.** what is the value of CF after execution ?

(A) 1

(B) 0

AL = 73   CL = 29

ADD AL,CL

DAA

11. What are the value at 00FE and 00FC memory locations after execution ?

(A) 5678,234

(B) 1234, 5678

1234	AX	5678	BX

Offset	
00F8	
00FA	
00FC	
00FE	
0100	

← SP

Empty Stack

⇨

Offset	
00F8	
00FA	
00FC	
00FE	
0100	

After PUSH AX

⇨

Offset	
00F8	
00FA	
00FC	
00FE	
0100	

AFTER PUSH BX

12. Which is false ?

(A) Bus interface unit(BIU) is responsible for transferring the data addresses on the buses necessary for execution unit

(B) Execution Unit receives program instruction codes and data from BIU, executes these instructions and store the result in generalregisters

(C) Both

(D) none

1. Ⓐ Ⓑ Ⓒ Ⓓ   4. Ⓐ Ⓑ Ⓒ Ⓓ   7. Ⓐ Ⓑ Ⓒ Ⓓ   10. Ⓐ Ⓑ Ⓒ Ⓓ

2. Ⓐ Ⓑ Ⓒ Ⓓ   5. Ⓐ Ⓑ Ⓒ Ⓓ   8. Ⓐ Ⓑ Ⓒ Ⓓ   11. Ⓐ Ⓑ Ⓒ Ⓓ

3. Ⓐ Ⓑ Ⓒ Ⓓ   6. Ⓐ Ⓑ Ⓒ Ⓓ   9. Ⓐ Ⓑ Ⓒ Ⓓ   12. Ⓐ Ⓑ Ⓒ Ⓓ

Name: _____   **ID:** _____

Section: