

## Grade Test: FINAL EXAM

Assign a grade and feedback for the current test attempt. Expand the **Test Information** section to clear the student's attempt or edit the test. [More Help](#)

[Hide User Names](#)[Jump to...](#)

### Test Information

#### QUESTION 1: ORDERING

0

out of 0 points

Please order the following code for storing **FABCH** into the **AX** register.

Correct Answer

Given Answer



- |                   |                   |
|-------------------|-------------------|
| ✓ 1. MOV CX,1003H | ✓ 1. MOV CX,1003H |
| ✓ 2. ADD CX,EABBH | ✓ 2. ADD CX,EABBH |
| ✓ 3. MOV CX,AX    | ✓ 3. MOV CX,AX    |
| ✓ 4. SUB CX,2     | ✓ 4. SUB CX,2     |

#### QUESTION 2: FILL IN THE BLANK

10

out of 10 points



If **SS=EFD3H** and the physical address of the stack is **FE95EH**

What is the value of **SP**?

Given Answer:  EC2EH

Evaluation Method	Correct Answer:	Case Sensitivity
-------------------	-----------------	------------------

Exact Match	 EC2E
-------------	--

Exact Match	 EC2EH
-------------	---

### QUESTION 3: CALCULATED NUMERIC


10


out of 10 points

In an **8-bit signed** CPU, what is the **binary value or -75** ?

Hint: Remember two's complement. Write an 8bit number with 8 digits. (i.e. 111010101 etc.)



Given Answer:  10110101

Correct Answer:  10,110,101

Answer range +/- 0 (10110101 - 10110101 )

### QUESTION 4: CALCULATED NUMERIC

10

out of 10 points


- 1) MOV AX,45H
- 2) MUL DX
- 3) MOV BL,03H
- 4) INC BL
- 5) MUL BX
- 6) SUB BX, BX
- 7) MOV DX,0CC1H



- 8) MOV CX,1
- 9) MUL CX

What is the final value of **BX** in **decimal** (Do not use H suffix in the answer!)?

Given Answer:  0

Correct Answer:  0

Answer range +/- 0 (0 - 0 )

### QUESTION 5: MULTIPLE CHOICE

10

out of 10 points



Which one of the following codes makes Carry Flag and Zero Flag 1 (CF=1, ZF=1)?

Given Answer:

MOV BH,85H

ADD BH, 7BH

MOV BL, 4AH

Correct Answer:

MOV BH,85H

ADD BH, 7BH

MOV BL, 4AH

---

#### QUESTION 6: ORDERING

10

out of 10 points



Please order the assembly codes to obtain a code that performs an identical task with the following C-like code.

```
dx=0 ;  
for( cx=7; cx < 18; cx+=3) {  
    bx=cx+ax ;  
    ax=ax+7 ;  
    dx=ax+2 ;  
}
```

Correct Answer

**mov dx, 0**

1. **mov cx, 7**

**iteration: cmp cx, 18**

2. **jge the\_end**

**mov bx, cx**

Given Answer

**mov dx, 0**

1. **mov cx, 7**

**iteration: cmp cx, 18**

2. **jge the\_end**

**mov bx, cx**

3. `add bx,ax`

3. `add bx,ax`

✓ `add ax,7`  
4. `mov dx,ax`  
`add dx,2`

✓ `add ax,7`  
4. `mov dx,ax`  
`add dx,2`

✓ `add cx,3`  
5. `jmp iteration`  
`the_end:ret`

✓ `add cx,3`  
5. `jmp iteration`  
`the_end:ret`

---

#### QUESTION 7: MULTIPLE CHOICE

10

out of 10 points

The Address bus in 8086 is .....



Given Answer: ✓ 20-bit

Correct Answer: ✓ 20-bit

---

#### QUESTION 8: CALCULATED NUMERIC

10

out of 10 points

How many bits required **at least** for representing the following hexadecimal number?



**8A00BFFD4780F3A**

Given Answer: ✓ 60

Correct Answer: ✓ 60

Answer range +/- 0 (60 - 60 )

---

#### QUESTION 9: FILL IN THE BLANK

10

out of 10 points



Convert following ASCII code into text.

ASCII code:

72 97 112 112 121

**Notes:**

**The code numbers are decimal!**

**Do not use spaces between characters in your answer!**

**The answer is case sensitive!**

Example:

ASCII code:


79 107

Answer:

**Ok**

Given Answer:  Happy

Evaluation Method	Correct Answer:	Case Sensitivity
-------------------	-----------------	------------------

Exact Match	 Happy	Case Sensitive
-------------	--	----------------

**QUESTION 10: TRUE/FALSE**

20

out of 20 points

This course is about writing assembly programs in x86 CPU architecture?



Hint: Correct answer is **True**.

Given Answer:  True

Correct Answer:  True

**FEEDBACK AND NOTES FOR ATTEMPT**

This feedback won't show to the user. Update your Test Question Settings to enable Feedback.

Feedback to Learner

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).



A screenshot of the TinyMCE editor toolbar. The toolbar is organized into several sections. The first section contains text formatting icons: bold (B), italic (I), underline (U), and strikethrough (ABC). The second section contains paragraph formatting options: a dropdown menu labeled 'Paragraph' and a dropdown menu labeled 'Arial'. The third section contains text size and color options: '10pt' with a dropdown arrow, a bulleted list icon with a dropdown arrow, a numbered list icon with a dropdown arrow, a text color icon (A) with a dropdown arrow, a background color icon (brush) with a dropdown arrow, and a subscript/superscript icon (Tx). The fourth section contains editing and alignment icons: a cut icon (scissors), a copy icon (two documents), a paste icon (document with plus), a search icon (magnifying glass), an undo icon (curved arrow left), a redo icon (curved arrow right), four alignment icons (left, center, right, justified), a decrease indent icon (arrow pointing left), an increase indent icon (arrow pointing right), a square icon, a square with an X icon, a square with a plus icon, and a square with a minus icon. The bottom status bar shows 'P' on the left and '0 WORDS POWERED BY TINY' on the right.