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**Started on** Thursday, 11 July 2019, 12:28 AM

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**State** Finished

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**Completed on** Thursday, 11 July 2019, 12:30 AM

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**Time taken** 1 min 59 secs

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**Grade** 50.00 out of 50.00 (100%)

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### Question 1

Correct

Mark 10.00 out of 10.00

BIOS INT 16H, service 12H returns AX = 0004H. Which key on the system keyboard is pressed

Select one:

- ☐ a. Insert
- ☒ b. Control ✓
- ☐ c. Scroll Lock
- ☐ d. None of the Above

The correct answer is: Control

## Question 2

Correct

Mark 10.00 out of 10.00

What is the DEBUG immediate mode command to output the byte from port 18H?

Select one:

- ☐ a. i15
- ☐ b. r15
- ☐ c. a18
- ☒ d. o18 ✓

The correct answer is: o18

### Question 3

Correct

Mark 10.00 out of 10.00

What single 80x86 instruction is equivalent to the following 80x86 instruction sequence? Assume the direction flag is reset.

MOVD EAX, [SI]

INC SI

Select one:

- ☐ a. LODS
- ☐ b. LODSB
- ☒ c. LODSD ✓
- ☐ d. LODSW

The correct answer is: LODSD

#### Question 4

Correct

Mark 10.00 out of 10.00

Which of the following I/O instructions are invalid?

Select one:

- ☒ a. OUT 19h, 3CE0 ✓
- ☐ b. IN AL, 19h
- ☐ c. IN EAX, DX
- ☐ d. OUT DX, EAX

The correct answer is: OUT 19h, 3CE0

## Question 5

Correct

Mark 10.00 out of 10.00

Write an 80x86 instruction sequence that inputs data from port 57H, sets bits 5 and 7 without changing the other bits, and outputs this data back to the same port.

In AL, 57

Or AL, \_\_

Out 57, AL

Select one:

- ☐ a. 0Ch
- ☐ b. 0Ah
- ☒ c. A0h ✓
- ☐ d. C0h

The correct answer is: A0h

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