

<b>COSC 1306</b>	<b>MOCK FIRST QUIZ</b>	<b>SEPTEMBER 20, 2017</b>
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The actual quiz will be **closed book**.  
 You will be allowed **one** page of notes plus the official Python crib sheet.

1. Which of the following statements are true or false? (10×3 points)

- T \_\_\_\_ F \_\_\_\_ Interpreted languages produce faster code than compiled languages.
- T \_\_\_\_ F \_\_\_\_ Having a *large disk drive* allows us to *store* more data on our computer.
- T \_\_\_\_ F \_\_\_\_ Algorithms always provides the correct answer but can take *forever*.
- T \_\_\_\_ F \_\_\_\_ The main memory is the part of the computer that executes your programs.
- T \_\_\_\_ F \_\_\_\_ A three-bit binary number will never represent a number bigger than three.
- T \_\_\_\_ F \_\_\_\_ Python expressions always return a value.
- T \_\_\_\_ F \_\_\_\_ Programs without comments are harder to read by humans.
- T \_\_\_\_ F \_\_\_\_ In Python, **Total** and **total** are two different variable names.
- T \_\_\_\_ F \_\_\_\_ The Python **input()** function always returns a string.
- T \_\_\_\_ F \_\_\_\_ You cannot run Python programs on a computer that does not have the Python interpreter installed.

2. What are the final values of the variables *a*, *b*, *c*, and *d* after the following Python code is executed? (4×5 points)

```

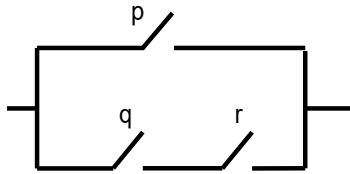
a = 6//7           b = "3" + "4"           c = 1/2 + 2           d = 2**1**2

a = _____    b = _____    c = _____    d = _____
    
```

3. Convert the following five binary numbers to know something about yourself. (10 points)

**011 001 011 011 111** means you are \_\_\_\_\_

4. Which Boolean expression is represented by the following circuit? (10 points)



\_\_\_\_\_

5. Which of these Python expressions are equivalent? (4×5 points)

- |         |        |                 |                   |
|---------|--------|-----------------|-------------------|
| YES ___ | NO ___ | $a + (b * c)$   | $a + b * c$       |
| YES ___ | NO ___ | $(a * b) ** 2$  | $a * b ** c$      |
| YES ___ | NO ___ | $a + b / c$     | $(a + b) / d$     |
| YES ___ | NO ___ | $a * b / c * d$ | $(a * b) / c * d$ |

6. You are asked to reorder the following Python statements so they form a program computing the cost per ounce of an item: (10 points and minus 5 points for each line that is out of order)

```
price = float(input("Enter the price of the item: "))
print("Its cost per ounce is $%.2f" % unitCost)
nOunces = float(input("Enter the number of ounces of product: "))
unitCost = price/nOunces
```

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