I've included four examples of each of the following types of questions on the exam. **Be sure to read through every question completely.**

The questions on the exam are as follows:

1. **Dual Choice** — worth 2 points each.
2. **Multiple Choice** — worth 4 points each. Choose the *best* answer.
3. **Fill-in-the-blank** — each blank is worth 6 points each. Be complete.

You may not use notes or books, your neighbors, or calculators or any other electronic devices on this exam. **Turn off and put away** your cell phone, pager, Inspector Gadget Watch, etc. now.
A or B: Terminology
Select the option which makes the statement true.

1. A ________________ is an example of an output device. (2)
   - monitor
   - mouse

2. A file with the extension ________________ contains Python source code. (2)
   - .tex
   - .py

True or False: Evaluating boolean expressions

3. ( 5 / 6 ) == 0 (2)
   - True
   - False

4. not ( 1 == 2 or 2 > 1 ) (2)
   - True
   - False

Multiple Choice: Reading code

5. What is the data type of x after the following line of code is executed? (4)
   
   \[
   x = \text{int}( \text{float}( "57.25" ) \times 14 ) > 800
   \]
   
   - int (integer)
   - float
   - str (string)
   - bool (boolean)
6. What is the *output* produced after the following code is executed? (4)

```python
count = 3  # the number thou shalt count

if count > 1:
    print "one"
    count += 1

if count <= 3:
    print "two"
else:
    print "five"
```

- one
  - five

- one
  - two
  - five

- one
  - two

- five

7. How many times does the following loop execute? (Hint: trace through the code.) (4)

```python
number_1 = 17
number_2 = 4

while number_1 != 0:
    number_1 = number_1 % number_2
    number_2 = number_2 - 1
```

- 4
- 3
- 2
- 1
8. Which code structure is depicted by this flow chart? Recall that the ◆ shape represents a decision and a □ shape represents a normal code statement. 

- while loop
- two (2) if statements
- if-else statement
- if-elif statement
Fill-in-the-blank: Writing code

For each of the following questions, fill in the value, operator, or statement needed to produce the indicated output (check the comments if you need a hint). Pay attention to data types!

9. \[ x = \text{___________} \quad \# \text{ code to get number 1-10 from user} \] (6)
   \[ \text{print } x + 5 \quad \# \text{ output is a number between 6-15} \]

10. For full credit, use \( x \) in your output without causing any errors. \( (6) \)
    \[ x = 37.2 \quad \# \text{ output: 37} \]
    \[ \text{print "My number is " + ____________} \quad \# \text{ expression with } x \]

11. Fill in the blanks in the condition so that it evaluates to True for the int values of \( x \) indicated on the number line below. Empty circles are not included in the range. \( (6) \)
    \[ \begin{array}{c}
    -1 \\
    \bigcirc \\
    5 \\
    \bigcirc \\
    9 \\
    \end{array} \]
    \[ (x < 5 \text{ and ___________}) \text{ or ________________} \]

12. \[ x = 3 \quad \# \text{ output: 27} \] (6)
    \[ \text{print } x \text{ ________ } 3 \quad \# \text{ operator only} \]
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