CPSC 217 Survey #1 – Winter 2010

Name: _____

1: Syntax errors are reported
   a) While you are creating your source code
   b) While your program is loading, before any statements are executed
   c) While your program is running, after some statements have executed
   d) After your program completes
   e) None of the above answers are correct

Answer: _____

2: When a Python program is running:
   a) The value stored in a variable may change
   b) The type of the value stored in a variable may change
   c) The name of a variable may change
   d) Exactly two of the above answers are correct
   e) Answers a, b and c are all correct

Answer: _____

Consider the following code segment:

```
a = input("Enter a: ")
b = input("Enter b: ")
total = 0

while (a <= b):
  a = a + 1
  print "A"
  if a % 4 == 0:
    b = b + 1
    print "B"
  total = total + a

print total
```

3: If the user enters 1 for a and 1 for b, then the output will be: _____

4: If the user enters 2 for a and 4 for b, then the output will be: _____

5: If the user enters 3 for a and 5 for b, then the output will be: _____

6: If the user enters 5 for a and 3 for b, then the output will be: _____

7: Consider the statement `print "%.2f" % x`. This statement will:
   a) Display the number stored in the variable x as an integer using exactly two digits
   b) Display the number stored in the variable x as a floating point number using exactly two digits
   c) Display the number stored in the variable x as a floating point number with exactly two digits to the left of the decimal point and exactly two digits to the right of the decimal point
   d) Display the number stored in the variable x as a floating point number with an unknown number of digits to the left of the decimal point and exactly two digits to the right of the decimal point
   e) Display the string "%.2f" followed by whatever value is stored in the variable x

Answer: _____

8: What is the minimum level of test coverage that must be achieved in order to prove that a program does not contain any bugs?
   a) Condition Coverage
   b) Graph Coverage
   c) Path Coverage
   d) Statement Coverage
   e) None of the above answers are correct

Answer: _____

9: What output will result when the following Python statement is executed?

```
print "3" + 5
```

   A. 8
   B. 8.0
   C. 35
   D. 35.0
   E. None of the above answers are correct

Answer: _____

10: Consider the base 10 number 100. In base 6, it would be represented as:
   a) 100_6
   b) 244_6
   c) 442_6
   d) 444_6
   e) None of the above answers are correct

Answer: _____