

## Survey #4

Name: \_\_\_\_\_

**1:** What is the different between opening a file in write mode ("w") compared to append mode ("a")?

**2:** Consider the following code segment:

```
def func1():
    func2()          # 1
    print "cpsec-217" # 2

def func2():
    print "survey"   # 3

print "start"       # 4
func1()              # 5
print "end"         # 6
```

When this program runs, the statements will execute in the order: \_\_\_\_\_

**3:** Lists and dictionaries are both structures that allow us to organize a collection of related pieces of data. Describe two significant differences between these data structures.

Consider the following code segment:

```
a = input ("Enter a number: ")
print "A"

try:
    print "B"
    b = 1.0 / float(a)
    print "C"
except:
    print "D"

print "E"
```

**4:** If the user enters 1.0 when prompted, the output from the program will be: \_\_\_\_\_

**5:** If the user enters 0.0 when prompted, the output from the program will be: \_\_\_\_\_

**6:** Which of the following statements is most correct?

- A. In a relational database, the schema describes the structure of the data in the database
- B. A primary key is a unique value associated with each row in a table
- C. Text files and databases are both viable options for managing large amounts of data
- D. Exactly two of the above answers are correct
- E. Answers a, b and c are all correct

Answer: \_\_\_\_\_

**7:** Write a Python function that formats a string of digits into a telephone number with appropriate use of brackets, a space, and a dash. For example, if your function was provided the string "4031234567" then your function would return "( 403 ) 123-4567". If the string provided to your function isn't exactly 10 digits long, or if the string contains any characters which are not a digit, then your function should return the empty string.