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("cpsc-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.