CS 2316 Exam 2 Practice

Name (print clearly):	
\ -	
Signature:	
GT account username (gtg, gth, msmith3, etc):	

- Signing signifies you are aware of and in accordance with the **Academic Honor Code of Georgia Tech**.
- Calculators and cell phones are NOT allowed.
- This is a Python programming test. Where asked for Python statements or expressions you must print them exactly as they would be typed in a Python source file or interactive shell.

Question	Points per Page	Points Lost	Points Earned	Graded By
Page 1	3	-	=	
Page 2	6	-	=	
Page 3	20	-	=	
Page 4	10	-	=	
Page 5	0	-	=	
Page 6	0	-	=	
Page 7	0	-	=	
TOTAL	39	-	=	

1.	True	\mathbf{or}	False

In each of the blanks below	write "T" if the statement	beside the blank is true,	"F" otherwise
-----------------------------	----------------------------	---------------------------	---------------

- [1] (a) ____ Comma-separated values files have a tree structure, meaning they have elements that are nested to arbitray depths.
- [1] (b) ____ CSV files are binary files whose contents can only be viewed with proprietary software.
- [1] (c) ____ Files in Python are buffered, meaning that they are not guaranteed to be completely written to disk until they are successfully closed.

- 2. Multiple Choice Circle the letter of the correct choice.
- [2] (a) Given the following CSV file contents:

```
'a'; 'b'; 'c'
'd'; 'e'; 'f'
'g'; 'e'; 'h'
```

What is the field delimiter?

- A. ','
- B. ';'
- C. "',",
- D. '"'
- [2] (b) What is the quote character?
 - A. ','
 - B. ';'
 - C. "',"
 - D. '"'
- [2] (c) If you read the CSV file above with a csv.DictReader like this:

```
quote = ... # from question above
delim = ... # from question above
reader = csv.DictReader(csvfile, delimiter=delim, quotechar=quote)
```

what would it return for the first record?

- A. ['a', 'b', 'c']
- B. ('a', 'b', 'c')
- C. {'a': 'd', 'b': 'e', 'c': 'f'}
- D. {None: 'a', None: 'b', None: 'c'}

3. Short Answer [5] (a) Say you have a python program that was run from the command line with python my_program one two three. Within your program, how do you get the first command line argument to your program (not to the Python interpreter)? [5] (b) Say you have a python program that was run from the command line. Write a snippet of Python code that checks whether any command line arguments were supplied to the Python program. [5] (c) Write a Python statement that opens a file for reading as text. The file name is supplied by the first command line argument. [5] (d) Write a Python statement that opens a file for writing as text. The file name is the first command line argument with the text ".out" appended.

Page 3 of 4 Points available: 20 - points lost: _____ = points earned: ____. Graded by: _____

[10] 4. Write Python code that reads a CSV file that uses commas for delimiters, no quote characters and has no header row and stores the data as a list of lists. For example, for a file like:

your code should create a list of lists like:

Use whatever Python programming techniques you wish.