## Name:

1. Which three of Python's core types are considered immutable?

```
a. strings, lists, dictionaries
b. strings, tuples, numbers
c. sets, dictionaries, tuples
d. tuples, dictionaries, lists
```

2. \_\_\_\_\_ means that the meaning of an operation depends on the objects being operated on. What is the word in blank should be?

```
a. garbage collection
b. immutability
c. polymorphism
d. mapping
```

3. Which statement computes square root of number x?

```
a. x ** 0.5
b. pow(x, 0.5)
c. math.sqrt(x)
d. all above
```

4. What is the output of statement  $x \ll 2$  if x = 2

```
a. 8
b. 4
c. 12
d. 6
```

5. Which statement about sets is False?

```
a. Sets can have dublicate values.b. Sets are mutable.c. Sets can only contain immutable object types.
```

6. What is the output of the below statement?

[x\*\*2 for x in [1, 2, 3, 4, 5] if x%2 = 0]

d. Sets are unordered object types.

```
a. [1, 4, 9, 16, 25]
b. [2, 4]
```

```
b. [2,4]
c. [1,2,9,4,25]
d. [4,16]
```

7. Given

```
T = 'spam', 3.0, [11, 22, 33]
```

Which of the following statements throws an error?

```
a. T = T + T[1:]
b. T[1]
c. T[2][1]
d. T.append(4)
```

8. Given

What is the value of (output1, output2)?

```
a. (True, False)
b. (False, False)
c. (True, True)
d. (False, True)
```