**Python Exam 1 Topics**

The distinction between mutable and immutable objects

How "hashable" and "immutable" are not identical

The special nature of Python variables: references

For collections, assignment yields a shallow copy

Logical operations:

all objects may be interpreted in a "boolean context"

short-circuit evaluation and the special return value of **and**, **or**

Identity comparison: **is**

Exceptions: built-in and custom

for-in statement

Arithmetic operations: difference between / and //

Function definitions

Sequence types: tuples and lists

List methods and functions

**List comprehensions**

Sequence slicing

Tuple unpacking

The range() generator function

enumerate()

Dictionaries

Dictionary comprehensions

Reversing

Sorting; use of a key function; sorted() function vs the sort() method

Iterators: built-in and custom

The all() and any() functions