Name:

## Introduction to Programming in Python, I Semester, 2011–2012 Quiz 5, 06 October 2011

Answer all three questions in the space provided. Don't forget to fill your name!

1. What is the value of pairs after the following assignment?

```
pairs = [ (x,y) for x in range(4) for y in range(3) if (x+y)%2 != 0 ]  (3 marks)
```

```
pairs : [(0, 1), (1, 0), (1, 2), (2, 1), (3, 0), (3, 2)]
```

2. What are the values of matrix\_v1 and matrix\_v2 after the following assignments?

```
matrix_v1: [[17, 0], [17, 0]]
```

matrix\_v2: [[17, 0], [0, 0]]

(... Question 3 on reverse)

3. Complete the following function definition—that is, fill in the parameters for f()—so that it behaves as described below.

```
def f(.....):
   print("a",a,"b",b,"c",c,"d",d)
```

Expected behaviour:

```
>>> f(b=4,a=3)
a 3 b 4 c 10 d 15

>>> f(3,5,7)
a 3 b 5 c 7 d 15

>>> f(3,c=7)
Traceback (most recent call last):
   File "<stdin>", line 1, in <module>
TypeError: f() takes at least 2 arguments (2 given)

(4 marks)
```

```
def f(a, b, c=10, d=15):
  print("a",a,"b",b,"c",c,"d",d)
```