

# **Introduction to Computer Programming – 2017**

## **Syntax Test – Group E**

**NAME:**

**COURSE:**

**PERSONAL TUTOR:**

**STUDENT ID:**

The time allowed for this test is 30 minutes. When you are instructed to do so, open the paper and begin. Your answers should be written on the paper as indicated for each question. No other working may be submitted.

The paper contains 10 questions and they should all be attempted. The questions have approximately equal weighting and to pass, you will need complete and accurate answers to most of the questions.

1. Predict the value of C (be precise).

```
A = False
B = False
C = A != B
```

Answer .....

2. Predict the types.

```
A = float("0.1")
```

Answer .....

```
A = "True - 1"
```

Answer .....

```
A = 10/2
```

Answer .....

3. Predict the value of A.

```
A = [1,2,3]
A[0] = A[0]+1
```

Answer .....

4. Predict the value of B.

```
A = "Hello there"
B = A[2]
```

Answer .....

5. Circle the 3 errors and explain in a couple of words how each breaks Python's syntax rules.

```
# Some comment here
Num = input("Pick a integer")

# Ask the user to pick a number
Sum = 0
for l in range(Num)
    Sum = Sum + 5

""" Print the sum"""
print(Sum)
```

6. What does the program print?

```
Numbers = [1,2,3,4]
Total = 0

for item in Numbers:
    if item%2 == 0:
        Total += item
    else:
        Total -= item

print(Total)
```

Answer .....

7. Predict the value of B.

```
A = [2-x for x in range(5)]
B = A[2]
```

Answer .....

8. Predict the value of C.

```
A = {1,2,3,4}
B = {1,2,5}
C = A & B
```

Answer .....

9. Circle the 2 errors.

```
Fondue = ["Bread","Cheese","Garlic"]
```

```
Total = 0
```

```
# Go through list
for Item in Fondue:
    if len(Item) = 5
        Total += len(Item)
```

```
# print Total
print(Total)
```

10. Predict the value of B.

```
A = [4,-5,1,7]
A.sort()
B = A[0]
```

Answer .....