Introduction to Computer Programming

2016 Syntax Test D

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 B.

```
A = True
B = "No"
A =  False
B == A
```

Answer .....

2. Predict the types.

```
A = "1+1=2"
```

Answer .....

```
A = 1-3
```

Answer .....

```
A = 2/1
```

Answer .....

3. Predict the value of B.

```
A = (5,6,1)
B = A[2]
```

Answer .....

4. Predict the value of B.

```
A = "ProGrAmMing"
B = A.lower().find("G")
```

Answer .....

5. Circle the 7 errors and explain in a couple of words how each breaks Python's syntax rules.

```
# Ask for a number
n = input("Give me a number?)

Is it bigger than 10
if n > 10
    print n
else
    print n*2
```

6. What does the program print?

```
A =  3
Sum = 0
for Num in range(A):
    Sum = Sum + 1

if Sum <= 4:
    print("That was a silly question!")
else:
    print(Sum)
```

Answer .....

7. Predict the value of B.

```
A = ((1,2,3),(4,5,6),(7,8,9))
B = A[1][-1]
```

Answer .....

8. Predict the value of B.

```
A = [[1,"A"],[3,"B"],[4,"C"]]
B = len(A)*len(A)
```

Answer .....

9. Circle the 2 errors and explain in a couple of words why each raises an error in Python.

```
# Predefined dictionary containing list of rooms and seats
RoomSizeList = ("Main Theater": 80, "Seminar Room": 10, "Class Room": 15)

# Calculate the total number of seats
Total = 0

for Key in RoomSizeList.keys():
Total = Total + RoomSizeList[Key]

# Print the total
print(Total)
```

10. Predict the value of A.

```
A = [-1,1,3,2]
A.append(3)
A[1]=0
```

Answer .....