Python for everyone – Multiple choice examples

The final exam has to parts: multiple choice questions and coding problems. This document provides examples for the first part.

1. Which line of code throws a SyntaxError?

    A) `print("Hello!")`

    B) `print("Hello!')`

    C) `print('Hello!')`

    D) `print('What's up?')`

2. What does the following code print out?

```
s = "apple cider"
print(s[:3])
```

    A) apple

    B) ap

    C) der

    D) app

3. What does the following code print out?

```
weather = {
    'today': {'min_temp' = 4., 'max_temp' = 12.},
    'tomorrow': {'min_temp' = 1., 'max_temp' = 9.},}

print(weather['tomorrow']['max_temp'])
```

    A) 4.0

    B) 9.0

    C) 12.0

    D) -3.2

4. Which of the following blocks of code runs without error?

```
A) t = (1, 12, 4)
   t[1] = 10.
```

```
B) s = 'hello'
   s[4]='a'
```

```
C) l = [1, 12, 4]
   l[1] = 10.
```

5. What does the following code print out?

```
def triple(x):
    t = 3*x
    print(t)
    return

print(triple(7))
```

   A) 7

   B) 21

   C) None

   D) 21.0

6. Your friend wrote the following code to find the minimum number in a list. But it keeps printing out zero, which line do you need to fix?

```
L = [12, 3, 8, 6]

m = 0
for num in l:
    if m > num:
        m = num
print(m)
```

   A) `m = 0`

   B) `for num in l:`

   C) `    if m > num:`

   D) `        m = num`

7. What is the output of the following code?

```
l = []
for i in range(3):
    l.append(2*i)
    print(l)
```

   A) 0
      2
      6

   B) [0, 2, 6]

   C) [0, 2, 6, 8]

   D) [0]
      [0, 2]
      [0, 2, 6]

8. Given a string `s="CEU PU GmbH"`, which of the following expressions equal `"PU"`? Mark all correct answers.

A) `s[4:6]`

B) `s[4:-5]`

C) `s[-7:-5]`

D) `s[-7:6]`

9. What is the output of the following code?

```
def dog_years(age):
    return 7*age

age = 2
if dog_years(age)<18:
    print("Your dog is not allowed to drive.")
else:
    print("Your dog is allowed to drive.")
```

A) `Your dog is not allowed to drive.`

B) `Your dog is allowed to drive.`

C) `SyntaxError`

D) `Dogs can't drive.`

10. Which blocks of code run without error. Mark all correct answers.

A) `l = [1,2,3]`
   `print(l[4])`

B) `D = {}`
   `D["apple"] = 10`

C) `D = {}`
   `D[[1,8]] = "black rook"`

D) `s = "eight"`
   `print(s[-1])`

11. You measured the weight of a granny smith apple and you would like to store the weight in a variable. What is the best choice for the variable name?

A) `x`

B) `AppleWeight`

C) `apple_weight`

D) `apple_weight_variable`

12. What is the output of the following code?

```
s = "python\ncourse"
s.capitalize()
print(s)
```

A) `Python course`

B) `python course`

C) `python`
   `course`

D) `Python`
   `course`