## Homework 03

1.	Which	of the	following	statement	is	INVALI	ጋ?
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```
(a) x = y = z = 1
```

- (b) x = (y = z + 1)
- (c) x, y = y, x
- (d) x += y

## 2. Which of the following expression is INVALID?

- (a) **int32**
- (b) **40XL**
- (c) self
- (d) \_\_name\_\_

#### 3. Which of the following sentences are INCORRECT?

- (a) Other than dictionary, all other data types can be "tested" as True or False.
- (b) Empty string will be evaluated to "False"
- (c) Empty List string will be evaluated to "False"
- (d) Any number (integer or float) that has 0 value will be evaluated to "False"

## 4. Which of the following data types are NOT Python data type?

- (a) char
- (b) int
- (c) float
- (d) list

## 5. Which of the following sentences are INCORRECT:

- (a) In a string, each character can be see as a string with the length equal to 1
- (b) string terminates with \0

- (c) string is quoted either with single or double quote characters.
- (d) A pair of 3 consecutive double quote can contain a string with new line character or other special characters.

#### 6. Which of the following statement will NOT create a dictionary:

```
    (a) dic1 = {}
    (b) dict2 = {3: 5}
    (c) dict3 = {[1, 2, 3]: "usetc"}
    (d) dict4 = {(1, 2, 3): "usetc"}
```

#### 7. Which of the following statement is CORRECT?

```
    (a) min = x if x < y else y</li>
    (b) max = x > y ? x : y
    (c) if (x > y) print x
    (d) while True: pass
```

## 8. Which of the following string is a CORRECT (select all that apply)?

```
(a) 'abc" ab"(b) 'abc" ab'(c) "abc"ab"(d) "abc\"ab"
```

#### 9. The correct result of "ab" + "c" \* 2 is?

```
(a) abc2(b) abcabc(c) abcc(d) ababcc
```

## 10. Which of the following statement is invalid?

```
(a) "New York".encode()(b) "New York".decode()(c) "New York".encode().decode()
```

## 11. What is the output of the following piece of code?

## 12. For the following script:

If x = 3, which one of the following group numbers is the possible value for k?

```
(a) 3, 4, 5
(b) 3, 4
(c) 5, 6, 7
(d) 4, 5
```

## 13. Which one of the following is NOT Python key word?

```
(a) raise(b) with(c) import
```

(d) final

## 14. What is the result of calling the following function?

```
def myfun():
    pass

(a) return: 0
(b) return: error, exception
(c) return: empty string
(d) return: None
```

#### 15. For the following Python function:

```
def showNnumber(numbers):
    for n in numbers:
        print(n)
```

## which one of the following call will create an error?

```
(a) ShowNnumber([2, 4, 5])
(b) showNnumber('abcesf')
(c) showNnumber(3.4)
(d) showNnumber([12, 4, 5])
```

#### 16. For the following Python function:

```
def chanageInt(number2):
          number2 = number2+1
          print("changeInt: number2= ",number2)
number1 = 2
chanageInt(number1)
print("number:",number1)
```

## which one of the following result is CORRECT?

(a) changeInt: number2= 3 number: 3

```
(b) changeInt: number2= 3 number: 2(c) number: 2 changeInt: number2= 2
```

(d) number: 2 changeInt: number2= 3

#### 17. The following function definition:

```
class Hello():
pass
```

## which one of the following statement is INCORRECT (select all that apply)?

- (a) The instantiated object contains \_\_dir\_\_() method.
- (b) The instantiated object contains \_\_hash\_\_() method.
- (c) The instantiated object contains \_\_dir\_\_() method, but not \_\_hash\_\_().
- (d) The instantiated object contains no its own methods since it did not define any.

#### 18. What is the output of the following piece of code?

```
class hello():
    def showInfo(sef):
        print(self.x)
```

#### which one of the following statements is CORRECT (select all that apply)?

- (a) Class hello cannot be instantiated
- (b) Class hello can be instantiated
- (c) Class hello can be instantiated, however the call to "showInfo" method will fail
- (d) Class hello can be instantiated and the "showInfo" method can be called without error

## 19. For the follow Python class definition:

```
class Hello():
    def __init__(self, name)
        self.name=name

def showInfo(self)
    print(self.name)
```

which one of the following code segments will execute without error?

```
(a) h = Hello
h.showInfor()
(b) h = Hello()
h.showInfor('John')
(c) h = Hello('John')
h.showInfor()
(d) h = Hello('admin')
1.showInfor
```

# 20. What is the output of the following piece of code if the user enters two lines containing 2 and 4 respectively?

```
try:
    number = int(input("Please enter the number: "))
    print("Number:",number)
    print("======hello=====")

except Exception as e:
    # report error
    print("Exception occurred: ",e)

else:
    print("All good!")

finally:#clean up everything
    print("finally")

print("end")
```

#### If user entered "1a", which one of the following result is correct?

```
(a) Number: 1 invalid literal for int() with base 10: finally end
```

(b) Exception occurred: invalid literal for int() with base 10: finally end

```
(c) ======hello=====

Exception occurred: invalid literal for int() with base 10:
finally
End

(d) All above
```

21. What is the correct output of the following snippet?

```
print( 0.1 + 0.2 == 0.3)

(a) False
(b) -1
(c) 0
(d) while
```

22. What is the correct output of the following snippet?

23. For str = "python", what is the correct statement to capitalize the "str":

```
    (a) print(str[0].upper()+str[1:])
    (b) print(str[1].upper()+str[-1:1])
    (c) print(str[0].upper()+str[1:-1])
    (d) print(str[0].upper()+str[2:])
```

24. The follow Python dictionary of color coding, select the answer that will display "seashell" color code:

```
DictColor = {"seashell": 123, "gold": 2342, "pink": 823, "brown":456, "purple":554, "tomato":735}
```

- (a) print(DictColor.keys())
- (b) print(DictColor['123'])
- (c) print(DictColor.values())
- (d) print(DictColor['seashell'])

#### 25. Select the correct result for the following Python code snippet:

```
s =["seashell","gold","pink","brown","purple","tomato"]
print(s[1:4:2])
(a) ['gold', 'pink', 'brown']
(b) ['gold', 'pink']
(c) ['gold', 'pink', 'brown', 'purple', 'tomato']
(d) ['gold', 'brown']
```

#### 26. Select the correct result for the following Python code snippet:

## 27. What is the output of the following snippet?

```
Is = ["2020", "20.20", "Python"]
Is.append(2020)
Is.append([2020, "2020"])
print(Is)

(a)  ['2020', '20.20', 'Python', 2020]
(b)  ['2020', '20.20', 'Python', 2020, [2020, '2020']]
(c)  ['2020', '20.20', 'Python', 2020, ['2020']]
```

#### 28. What is the output of the following snippet?

```
a = ["a", "b", "c"]
b = a[::-1]
print(b)
```

- (a) ['a', 'b', 'c']
- (b) 'c', 'b', 'a'
- (c) 'a', 'b', 'c'
- (d) ['c', 'b', 'a']

#### 29. What is the output of the following snippet?

- (a) ['1', '2', '3']
- (b) ['1', '2', '3', '0', '0']
- (c) ['1', '2', '3', '0', '0', '0']
- (d) ['1', '2', '3', '0']

## 30. What is the output of the following snippet?

```
s = "the sky is blue"
print(s[-4:], s[:-4])
```

- (a) the sky is blue
- (b) blue is sky the
- (c) sky is blue the
- (d) blue the sky is