

# CIT Python Week 6 Quiz

Total points 150/200 ?

End of Week 6 Python Quiz

✗ Full Names \*

.../5

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✗

✗ 1. \_\_\_\_ represents an entity in the real world with its identity and behaviour.

\*0/5

- ☐ a) A method
- ☐ b) An object
- ☒ c) A class
- ☐ d) An operator

✗

Correct answer

- ☒ b) An object

Feedback

*An object represents an entity in the real world that can be distinctly identified. A class may define an object.*



✗ 2. \_\_\_\_ is used to create an object. \*

0/5

- ☒ a) class
- ☐ b) constructor
- ☐ c) User-defined functions
- ☐ d) In-built functions

✗

Correct answer

- ☒ b) constructor

Feedback

*The values assigned by the constructor to the class members is used to create the object.*



## ✓ 3. class Test:

\*

5/5

```
def __init__(self,a="Hello World"):
    self.a=a
```

```
def display(self):
    print(self.a)
```

```
obj=Test()
obj.display()
```

- ☐ a) The program has an error because constructor can't have default arguments
- ☐ b) Nothing is displayed
- ☒ c) "Hello World" is displayed ✓
- ☐ d) The program has an error display function doesn't have parameters

Feedback

*The program has no error. "Hello World" is displayed.*

## ✓ 4. What is setattr() used for? \*

5/5

- ☐ a) To access the attribute of the object
- ☒ b) To set an attribute ✓
- ☐ c) To check if an attribute exists or not
- ☐ d) To delete an attribute

Feedback

*setattr(obj,name,value) is used to set an attribute. If attribute doesn't exist, then it would be created.*

✓ 5. What is getattr() used for? \*

5/5

- ☒ a) To access the attribute of the object
- ☐ b) To delete an attribute
- ☐ c) To check if an attribute exists or not
- ☐ d) To set an attribute



Feedback

*getattr(obj,name) is used to get the attribute of an object.*

✓ 6. What will be the output of the following Python code? \*

5/5

**class** change:

```
def __init__(self, x, y, z):  
    self.a = x + y + z
```

```
x = change(1,2,3)  
y = getattr(x, 'a')  
setattr(x, 'a', y+1)  
print(x.a)
```

- ☐ a) 6
- ☒ b) 7
- ☐ c) Error
- ☐ d) 0



Feedback

*First, a=1+2+3=6. Then, after setattr() is invoked, x.a=6+1=7.*



✓ 7. What will be the output of the following Python code? \*

5/5

```
class test:  
    def __init__(self,a):  
        self.a=a  
  
    def display(self):  
        print(self.a)  
obj=test()  
obj.display()
```

- ☐ a) Runs normally, doesn't display anything
- ☐ b) Displays 0, which is the automatic default value
- ☒ c) Error as one argument is required while creating the object
- ☐ d) Error as display function requires additional argument



#### Feedback

Since, the `__init__` special method has another argument `a` other than `self`, during object creation, one argument is required. For example: `obj=test("Hello")`



✓ 8. Is the following Python code correct? \*

5/5

```
>>> class A:
    def __init__(self,b):
        self.b=b
    def display(self):
        print(self.b)
>>> obj=A("Hello")
>>> del obj
```

☒ True



☐ False

#### Feedback

*It is possible to delete an object of the class. On further typing obj in the python shell, it throws an error because the defined object has now been deleted.*



✓ 9. What will be the output of the following Python code? \*

5/5

```
class test:
    def __init__(self):
        self.variable = 'Old'
        self.Change(self.variable)
    def Change(self, var):
        var = 'New'
obj=test()
print(obj.variable)
```

- ☐ a) Error because function change can't be called in the \_\_init\_\_ function
- ☐ b) 'New' is printed
- ☒ c) 'Old' is printed
- ☐ d) Nothing is printed



Feedback

*This is because strings are immutable. Hence any change made isn't reflected in the original string.*

✓ 10. What is Instantiation in terms of OOP terminology? \*

5/5

- ☐ a) Deleting an instance of class
- ☐ b) Modifying an instance of class
- ☐ c) Copying an instance of class
- ☒ d) Creating an instance of class



Feedback

*Instantiation refers to creating an object/instance for a class.*



✓ 11. What will be the output of the following Python code? \*

5/5

```
class fruits:
    def __init__(self, price):
        self.price = price
obj=fruits(50)

obj.quantity=10
obj.bags=2

print(obj.quantity+len(obj.__dict__))
```

- ☐ a) 12
- ☐ b) 52
- ☒ c) 13
- ☐ d) 60



#### Feedback

*In the above code, obj.quantity has been initialised to 10. There are a total of three items in the dictionary, price, quantity and bags. Hence, len(obj.\_\_dict\_\_) is 3.*





✓ 12. What will be the output of the following Python code? \*

5/5

```
class Demo:
    def __init__(self):
        pass

    def test(self):
        print(__name__)

obj = Demo()
obj.test()
```

- ☐ a) Exception is thrown
- ☒ b) \_\_main\_\_
- ☐ c) Demo
- ☐ d) test



Feedback

*Since the above code is being run not as a result of an import from another module, the variable will have value “\_\_main\_\_”.*

✓ 13. In which of the following does the CricketFan class correctly inherit from the PartyAnimal class?

\*5/5

- ☐ A. from party import PartyAnimal
- ☒ B. class CricketFan(PartyAnimal)
- ☐ C. an = PartyAnimal()
- ☐ D. CricketFan = PartyAnimal()



✓ 14. What will be the output of the following Python code? \*

5/5

```
try:
    if '1' != 1:
        raise "someError"
    else:
        print("someError has not occurred")
except "someError":
    print ("someError has occurred")
```

- ☐ a) someError has occurred
- ☐ b) someError has not occurred
- ☒ c) invalid code
- ☐ d) none of the mentioned



Feedback

*A new exception class must inherit from a BaseException. There is no such inheritance here.*



✓ 15. What does the following code output? \*

5/5

```
class People():  
    def __init__(self, name):  
        self.name = name  
  
    def namePrint(self):  
        print(self.name)  
  
person1 = People("Sally")  
person2 = People("Louise")  
person1.namePrint()
```

- ☒ A. Sally
- ☐ B. Louise
- ☐ C. Sally Louise
- ☐ D. person1



✗ 16. Which of the following statements is **not** true about object-oriented programming? \*0/5

- ☒ A. One of the benefits of object-oriented programming is that it can hide complexity.
- ☐ B. A class contains functions as well as the data that is used by those functions.
- ☐ C. Constructor methods are required to initialize an object and destructor methods are required to destroy the object when no longer required.
- ☐ D. A powerful feature of object-oriented programming is the ability to create a new class by extending an existing class.



Correct answer

- ☒ C. Constructor methods are required to initialize an object and destructor methods are required to destroy the object when no longer required.



✓ 17. What is the output of the following code?

\*

5/5

```
class Pokemon():

    def __init__(self, name, type):
        self.name = name
        self.type = type

    def stringPokemon(self):
        print(f"Pokemon name is {self.name} and type is {self.type}")

class GrassType(Pokemon):

    # overrides the stringPokemon() function on 'Pokemon' class
    def stringPokemon(self):
        print(f"Grass type pokemon name is {self.name}")

poke1 = GrassType('Bulbasaur', 'Grass')
poke1.stringPokemon
poke1.stringPokemon()
poke2 = Pokemon('Charizard', 'Fire')
poke2.stringPokemon
poke2.stringPokemon()
```

- ☒ A. Grass type pokemon name is Bulbasaur Pokemon name is Charizard and type is Fire ✓
- ☐ B. Pokemon name is Bulbasaur and type is Grass Pokemon name is Charizard and type is Fire
- ☐ C. Grass type pokemon name is Bulbasaur Grass type pokemon name is Charizard
- ☐ D. Error because the extending class has a stringPokemon() function which already exists.



✗ 18. True or False? In order to extend a class, the new class should have access to all the data and inner workings of the parent class. \*0/5

☒ True

☐ False

Correct answer

☒ False

✗

✓ 19. Which of the following is the correct way to define an initializer method? \*5/5

☐ A. def \_\_init\_\_(title, author):

☒ B. def \_\_init\_\_(self, title, author):

☐ C. def \_\_init\_\_():

☐ D. \_\_init\_\_(self, title, author):

✓

✗ 20. Which of the following is correct with respect to OOP concept in Python? \*0/5

☐ A. Objects are real world entities while classes are not real.

☐ B. Classes are real world entities while objects are not real.

☐ C. Both objects and classes are real world entities.

☒ D. Both object and classes are not real.

Correct answer

☒ A. Objects are real world entities while classes are not real.

✗



✓ 21. Who developed the Python language? \*

5/5

- ☐ Zim Den
- ☒ Guido van Rossum
- ☐ Niene Stom
- ☐ Wick van Rossum



✓ 22. Which of the following is correct? \*

5/5

```
class Book:
    def __init__(self,author):
        self.author=author
book1=Book("V.M.Shah")
book2=book1
```

- ☐ A. Both book1 and book2 will have reference to two different objects of class Book.
- ☒ B. id(book1) and id(book2) will have same value.
- ☐ C. It will throw error as multiple references to same object is not possible.
- ☐ D. None of the above



Feedback

Ans : B

Explanation: book1 and book2 will reference to the same object. Hence, id(book1) and id(book2) will have same value.



✗ 23. In python, what is method inside class? \*

0/5

- ☒ A. attribute
- ☐ B. object
- ☐ C. argument
- ☐ D. function

✗

Correct answer

- ☒ D. function



✓ 24. What will be the output of below Python code? \*

5/5

class A:

def \_\_init\_\_(self,num):

num=3

self.num=num

def change(self):

self.num=7

a=A(5)

print(a.num)

a.change()

print(a.num)

☐ A. 5, 7

☐ B. 5, 5

☐ C. 3, 3

☒ D. 3, 7





✗ 25. Which one of the following syntaxes is the correct syntax to read from \*0/5 a simple text file stored in "d:\java.txt"?

- ☐ A. Infile = open("d:\\java.txt", "r")
- ☐ B. Infile = open(file="d:\\java.txt", "r")
- ☐ C. Infile = open("d:\java.txt","r")
- ☒ D. Infile = open.file("d:\\java.txt","r")

✗

Correct answer

- ☒ A. Infile = open("d:\\java.txt", "r")

✓ 26. Study the following program: \*

5/5

```
class book:
    def __init__(a, b):
        a.o1 = b

class child(book):
    def __init__(a, b):
        a.o2 = b

obj = page(32)
print "%d %d" % (obj.o1, obj.o2)
```

- ☐ 32
- ☐ 32 32
- ☐ 32 None
- ☒ Error is generated

✓



✗ 27. Study the following program:

\*

0/5

```
class Std_Name:
    def __init__(self, Std_firstName, Std_PhN, Std_lastName):
        self.Std_firstName = Std_firstName
        self.Std_PhNStd_PhN = Std_PhN
        self.Std_lastName = Std_lastName

Std_firstName = "Wick"
name = Std_Name(Std_firstName, 'F', "Bob")
Std_firstName = "Ann"
name.lastName = "Nick"
print(name.Std_firstName, name.Std_lastName)
```

What will be the output of this statement?

- ☐ Ann Bob
- ☐ Ann Nick
- ☒ Wick Bob
- ☐ Wick Nick

✗

Correct answer

- ☒ Wick Nick



✓ 28. Study the following program:

\*

5/5

```
i = 1:  
while True:  
    if i%3 == 0:  
        break  
    print(i)
```

What will be the output of this statement?

- ☐ 1 2 3
- ☐ 3 2 1
- ☐ 1 2
- ☒ Invalid syntax

✓

✓ 29. Study the following program:

\*

5/5

```
i = 0  
while i < 5:  
    print(i)  
    i += 1  
    if i == 3:  
        break  
else:  
    print(0)
```

What will be the output of this statement?

- ☐ 1 2 3
- ☐ 0 1 2 3
- ☒ 0 1 2
- ☐ 3 2 1

✓



✗ 30. What error will occur when you execute the following code? \*

0/5

MANGO = APPLE

- ☐ NameError
- ☐ SyntaxError
- ☐ TypeError
- ☒ ValueError

✗

Correct answer

- ☒ NameError

✓ 31. Study the following statement \*

5/5

z = {"x":0, "y":1}

Which of the following is the correct statement?

- ☐ dictionary z is created
- ☐ x and y are the keys of dictionary z
- ☐ 0 and 1 are the values of dictionary z
- ☒ All of the above

✓

✓ 32. Which of the following is not a class method? \*

5/5

- ☒ (a) Non-static
- ☐ (b) Static
- ☐ (c) Bounded
- ☐ (d) Unbounded

✓



✓ 33. Which of the following best describes inheritance? \*

5/5

- ☒ (a) Ability of a class to derive members of another class as a part of its own definition ✓
- ☐ (b) Means of bundling instance variables and methods in order to restrict access to certain class members
- ☐ (c) Focuses on variables and passing of variables to functions
- ☐ (d) Allows for implementation of elegant software that is well designed and easily modified

✓ 34. Which of the following statements isn't true? \*

5/5

- ☐ (a) A non-private method in a superclass can be overridden
- ☐ (b) A derived class is a subset of superclass
- ☒ (c) The value of a private variable in the superclass can be changed in the subclass ✓
- ☐ (d) When invoking the constructor from a subclass, the constructor of superclass is automatically invoked



✓ 35. What will be the output of the following Python code? \*

5/5

```
class A:
    def __init__(self):
        self.multiply(15)
        print(self.i)

    def multiply(self, i):
        self.i = 4 * i;
class B(A):
    def __init__(self):
        super().__init__()

    def multiply(self, i):
        self.i = 2 * i;
obj = B()
```

- ☐ (a) 15
- ☐ (b) 60
- ☐ (c) An exception is thrown
- ☒ (d) 30



✓ 36. What will be the output of the following Python code? \* 5/5

```
class Demo:
    def check(self):
        return " Demo's check "
    def display(self):
        print(self.check())
class Demo_Derived(Demo):
    def check(self):
        return " Derived's check "
Demo().display()
Demo_Derived().display()
```

- ☒ (a) Demo's check Derived's check ✓
- ☐ (b) Demo's check Demo's check
- ☐ (c) Derived's check Demo's check
- ☐ (d) Syntax error

✓ 37. Which of the following is the most suitable definition for encapsulation? \* 5/5

- ☐ (a) Ability of a class to derive members of another class as a part of its own definition
- ☒ (b) Means of bundling instance variables and methods in order to restrict access to certain class members ✓
- ☐ (c) Focuses on variables and passing of variables to functions
- ☐ (d) Allows for implementation of elegant software that is well designed and easily modified



✓ 38. Methods of a class that provide access to private members of the class are called as \_\_\_\_\_ and \_\_\_\_\_ \*5/5

- ☒ (a) getters/setters ✓
- ☐ (b) \_\_repr\_\_/\_str\_\_
- ☐ (c) user-defined functions/in-built functions
- ☐ (d) \_\_init\_\_/\_del\_\_

✓ 39. Private members of a class cannot be accessed. 5/5

- ☐ True
- ☒ False ✓

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