

Python Institute PCEP

Certified Entry-Level Python Programmer Certification

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Question: 1

Assuming that the following piece of code has been executed successfully, which of the expressions evaluate to True? (Select two answers)

```
class A:
    VarA = 1
    def __init__(self):
        self.prop_a = 1

class B(A):
    VarA = 2
    def __init__(self):
        self.prop_a = 2
        self.prop_aa = 2

class C(B):
    VarA = 3
    def __init__(self):
        super().__init__()

obj_a = A()
obj_b = B()
obj_c = C()
```

- A. `obj_b.prop_a == 3`
- B. `hasattr(obj_b, 'prop_aa')`
- C. `isinstance(obj_c, A)`
- D. `B.VarA == 3`

Answer: C,D

Question: 2

Assuming that the code below has been executed successfully, which of the following expressions evaluate to True? (Select two answers)

```
class Class:
    var = 1
    def __init__(self, value):
        self.prop = value
```

```
Object = Class(2)
```

- A. 'var' in Object.__dict__
- B. 'prop' in Class.__dict__
- C. len(Object.__dict__) == 1
- D. 'var' in Class.__dict__

Answer: A, C

Question: 3

What is the expected behavior of the following code?

```
class Class:
    _Var = 1
    __Var = 2
    def __init__(self):
        self._prop = 3
        self.__prop = 4

o = Class()
print(o._Class__Var + o._Class__prop)
```

- A. it outputs 6
- B. it outputs 1
- C. it outputs 3
- D. it raises an exception

Answer: A

Question: 4

What is the expected output of the following snippet?

```
class Upper:
    def method(self):
        return 'upper'

class Lower(Upper):
    def method(self):
        return 'lower'

Object = Upper()
print(isinstance(Object, Lower), end=' ')
print(Object.method())
```

- A. True lower
- B. True upper
- C. False upper
- D. False lower

Answer: B

Question: 5

Which of the following lines of code will work flawlessly when put independently inside the `add_new()` method in order to make the snippet's output equal to `[0, 1, 21]` ? (Select two answers)

```

class MyClass:
    def __init__(self, size):
        self.queue = [i for i in range(size)]

    def get(self):
        return self.queue

    def get_last(self):
        return self.queue[-1]

    def add_new(self):
        # insert the line of code here

Object = MyClass(2)
Object.add_new()
print(Object.get())

```

- A. self.queue.append(get_last() + 1)
- B. queue.append(self.get last () + 1)
- C. self.queue.append(self.queue[+1])
- D. self.queue.append(self.get last() +1)

Answer: D

Question: 6

Which of the following statements are true? (Select two answers)

- A. open () requires a second argument
- B. open () is a function which returns an object that represents a physical file
- C. instd, outstd, errstd are the names of pre-opened streams
- D. if invoking open () fails, an exception is raised

Answer: B, D

Question: 7

What is the expected behavior of the following code?

```
x = 8 ** (1/3)
y = 2. if x < 2.3 else 3.
print(y)
```

- A. it outputs 2.0
- B. it outputs 2. 5
- C. the code is erroneous and it will not execute
- D. it outputs 3.0

Answer: A

Question: 8

What is the expected output of the following code?

```
def foo(x,y,z):
    return x(y) - x(z)
print(foo(lambda x: x % 2, 2, 1) )
```

- A. 1
- B. 0
- C. -1
- D. an exception is raised

Answer: C

Question: 9

Assuming that the following code has been executed successfully, select the expressions which evaluate to True (Select two answers)

```
var = 1

def f():
    global var
    var += 1
    def g():
        return var
    return g

a = f()
b = f()
```

- A. a is b
- B. b() > 2
- C. a() > 2
- D. a is not None

Answer: BCD

Question: 10

What is the expected output of the following code?

```
myli = range(-2,2)
m = list(filter(lambda x: True if abs(x) < 1 else False, myli))
print(len(m))
```

- A. 4
- B. 16
- C. an exception is raised
- D. 1

Answer: D

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