

PCAP.exam

Number: PCAP
Passing Score: 800
Time Limit: 120 min
File Version: 1.0

Python PCAP

Certified Associate in Python Programming



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Exam A

QUESTION 1

Assuming that the following snippet has been successfully executed, which of the equations are True? (Select two answers)

```
a= [1]  
b=a  
a[0] = 0
```



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- A. `len(a) == len (b)`
- B. `b [0] +1 ==a [0]`
- C. `a [0] == b [0]`
- D. `a [0] + 1 ==b [0]`

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

```
9 a=[1]
10 b=a
11 a[0]=0
12 print (len(a) == len (b))
```

True

...Program finished with exit code 0
Press ENTER to exit console.

QUESTION 2

Assuming that the following snippet has been successfully executed, which of the equations are False? (Select two answers)

```
a=[0]
b=a [:]
a[0]=1
```

- A. $\text{len}(a) == \text{len}(b)$
- B. $a[0]-1 == b[0]$
- C. $a[0] == b[0]$
- D. $b[0] - 1 == a[0]$

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

```
9 a=[0]
10 b=a[:]
11 a[0]=1
12 print (a [0]-1 ==b [0])
13 print (len(a)== len (b))
```

True
True

...Program finished with exit code 0
Press ENTER to exit console.

QUESTION 3

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

- A. Python strings are actually lists
- B. Python strings can be concatenated
- C. Python strings can be sliced like lists
- D. Python strings are mutable

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.python.org/2/tutorial/introduction.html>

QUESTION 4

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

- A. Lists may not be stored inside tuples
- B. Tuples may be stored inside lists
- C. Tuples may not be stored inside tuples
- D. Lists may be stored inside lists

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.afternerd.com/blog/python-lists-for-absolute-beginners/>

QUESTION 5

Assuming that String is six or more letters long, the following slice

string [1:-2]

is shorter than the original string by:

- A. four chars
- B. three chars
- C. one char
- D. two chars

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

What is the expected output of the following snippet?

```
lst = [1,2,3,4]
lst = lst [-3:-2]
lst= lst[-1]
print (lst)
```

- A. 1
- B. 4

- C. 2
- D. 3

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

```
9 lst=[1,2,3,4]
10 lst=lst[-3:-2]
11 lst=lst[-1]
12 print (lst)
```

2

...Program finished with exit code 0
Press ENTER to exit console.

QUESTION 7

What is the expected output of the following snippet?

```
s= 'abc'
for i in len(s):
    s[i] = s[i].upper ( )
print(s)
```

- A. abc
- B. The code will cause a runtime exception
- C. ABC
- D. 123

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

```
9 s='abc'
10 for i in len(s):
11     s[i] = s[i].upper()
12 print(s)
```

Traceback (most recent call last):
File "/home/main.py", line 10, in <module>
for i in len(s):
TypeError: 'int' object is not iterable

...Program finished with exit code 1
Press ENTER to exit console.

QUESTION 8

How many elements will the list2 list contain after execution of the following snippet?

```
list1 = [False for i in range (1, 10) ]  
list2 = list1 [-1:1:-1]
```



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- A. zero
- B. five
- C. seven

D. three

Correct Answer: C

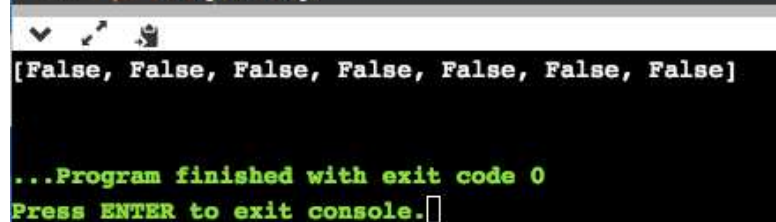
Section: (none)

Explanation

Explanation/Reference:

Explanation:

```
9 list1 = [False for i in range (1, 10) ]
10 list2 = list1 [-1:1:-1]
11 print(list2)
```



```
[False, False, False, False, False, False, False]
```

...Program finished with exit code 0
Press ENTER to exit console.

QUESTION 9

What would you used instead of XXX if you want to check weather a certain 'key' exists in a dictionary called dict? (Select two answers))

if XXX:

print ("Key exists")

- A. 'key' in dict
- B. dict ['key'] != None
- C. dict.exists ('key')
- D. 'key' in dict.keys ()

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://thispointer.com/python-how-to-check-if-a-key-exists-in-dictionary/>

QUESTION 10

You need data which can act as a simple telephone directory. You can obtain it with the following clauses (select two relevant variants; assume that no other items have been created before)

- A. `dir={'Mom': 5551234567, 'Dad': 5557654321}`
- B. `dir= {'Mom': '5551234567', 'Dad': '5557654321'}`
- C. `dir= {Mom: 5551234567, Dad: 5557654321}`
- D. `dir= {Mom: '5551234567', Dad: '5557654321'}`

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

Can a module run like regular code?

- A. yes, and it can differentiate its behavior between the regular launch and import
- B. it depends on the Python version
- C. yes, but it cannot differentiate its behavior between the regular launch and import
- D. no, it is not possible; a module can be imported, not run

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

you write a module (a .py file) where it can be executed directly. Alternatively, it can also be imported and used in another module. By doing the main check, you can have that code only execute when you want to run the module as a program and not have it execute when someone just wants to import your module and call your functions themselves.

Reference: <https://developer.rhino3d.com/guides/rhinopython/python-remote-local-module/>

QUESTION 12

Select the valid fun () invocations:

(select two answers)

```
def fun (a, b=0):  
    return a*b
```

- A. fun (b=1)
- B. fun (a=0)
- C. fun (b=1, 0)
- D. fun (1)

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

A file name like this one below says that:
(select three answers)

services, cpython 36.pyc

- A. the interpreter used to generate the file is version 3.6
- B. it has been produced by CPython
- C. it is the 36th version of the file
- D. the file comes from the services.py source file

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

What is the expected behavior of the following snippet?

```
def a (l, I) :  
    return l [I]  
  
print (a (0, [1]) )
```

It will:

- A. cause a runtime excpetion
- B. print 1
- C. print 0, [1]
- D. print [1]

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

```
9- def a(l,I):  
10     return l[I]  
11  
12 print (a (0, [1]))
```

File "/home/main.py", line 12
print (a (0, [1]))
^
SyntaxError: invalid syntax

...Program finished with exit code 1
Press ENTER to exit console.

QUESTION 15

Is it possible to safely check if a class/object has a certain attribute?

- A. yes, by using the hasattr attribute
- B. yes, by using the hasattr () method
- C. yes, by using the hassattr () function
- D. no, it is not possible

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://stackoverflow.com/questions/610883/how-to-know-if-an-object-has-an-attribute-in-python>

QUESTION 16

The first parameter of each method:



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- A. holds a reference to the currently processed object
- B. is always set to None
- C. is set to a unique random value
- D. is set by the first argument's value

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://pythontips.com/2013/08/07/the-self-variable-in-python-explained/>

QUESTION 17

The simplest possible class definition in Python can be expressed as:

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- A. class X:
- B. class X:
 pass
- C. class X:
 return
- D. class X: { }

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.python.org/3/tutorial/classes.html>

QUESTION 18

If you want to access an exception object's components and store them in an object called e, you have to use the following form of exception statement:

- A. except Exception (e) :
- B. except e= Exception :
- C. except Exception as e:
- D. such an action is not possible in Python

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://stackoverflow.com/questions/32613375/python-2-7-exception-handling-syntax>

QUESTION 19

A variable stored separately in every object is called:

- A. there are no such variables, all variables are shared among objects
- B. a class variable
- C. an object variable
- D. an instance variable

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://dev.to/ogwurujohnson/distinguishing-instance-variables-from-class-variables-in-python-81>

QUESTION 20

There is a stream named s open for writing. What option will you select to write a line to the stream?

- A. s.write ("Hello\n")
- B. write (s, "Hello")
- C. s.write ("Hello")
- D. s.writeline ("Hello")

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://en.wikibooks.org/wiki/Python_Programming/Input_and_Output

