

PCEP - Certified Entry-Level Python Programmer

1. Insert the correct snippet so that the program produces the expected output.

Expected output:

```
1 | True
```

Code:

```
1 | list = [False, True, "2", 3, 4, 5]
2 | # insert code here
3 | print(b)
```

A. `b = 0` not in list

B. `b = list[0]`

C. `b = 0` in list

D. `b = False`

Answer(s): A

2. Assuming that the tuple is a correctly created tuple, the fact that tuples are immutable means that the following instruction:

```
1 | my_tuple[1] = my_tuple[1] + my_tuple[0]
```

A. is illegal

B. may be illegal if the tuple contains strings

C. can be executed if and only if the tuple contains at least two elements

D. is fully correct

Answer(s): A

3. What is the expected output of the following code?

```
1 | x = [0, 1, 2]
2 | x.insert(0, 1)
3 | del x[1]
4 | print(sum(x))
```

A. 2

B. 4

C. 5

D. 3

Answer(s): B

4. Take a look at the snippet, and choose the true statements: (Choose two.)

```
1 | nums = [1, 2, 3]
2 | vals = nums
3 | del vals[1:2]
```

A. nums is longer than vals

B. nums and vals are of the same length

C. vals is longer than nums

D. nums and vals refer to the same list

Answer(s): B D

5. What is the output of the following snippet?

```
1 | dct = {}  
2 | dct['1'] = (1, 2)  
3 | dct['2'] = (2, 1)  
4 |  
5 | for x in dct.keys():  
6 |     print(dct[x][1], end='')
```

A. 12

B. (2, 1)

C. (1, 2)

D. 21

Answer(s): D

6. What is the expected output of the following code?

```
print(list('hello'))
```

A. hello

B. [h, e, l, l, o]

C. ['h', 'e', 'l', 'l', 'o']

D. ['h' 'e' 'l' 'l' 'o']

E. None of the above.

Answer(s): C

7. What will be the output of the following code snippet?

```
1 | a = [1, 2, 3, 4, 5, 6, 7, 8, 9]  
2 | print(a[:2])
```

A. [1, 3, 5, 7, 9]

B. [8, 9]

C. [1, 2, 3]

D. [1, 2]

Answer(s): A

8. Which of the following sentences is true?

1 | `str1 = 'Peter'`

2 | `str2 = str1[:]`

A. str1 and str2 are different (but equal) strings.

B. str1 and str2 are different names of the same strings.

C. str1 is longer than str2

D. str2 is longer than str1

Answer(s): B

9. The fact that tuples belong to sequence types means:

A. they can be modified using the del instruction

B. they can be extended using the .append() method

C. they are actually lists

D. they can be indexed and sliced like lists

Answer(s): D

10. What is the output of the following code?

```
1 | my_list = [3, 1, -1]
2 | my_list[-1] = my_list[-2]
3 | print(my_list)
```

A. [1, 1, 1]

B. [3, -1, 1]

C. [3, 1, 1]

Answer(s): C

11. A data structure described as LIFO is actually a:

A. stack

B. tree

C. list

D. heap

Answer(s): A

12. How would you remove all the items from the d dictionary?

Expected output:

```
1 | {}
```

Code:

```
1 | d = {'A' : 1, 'B' : 2, 'C' : 3}
```

A. d.del()

B. d.remove()

C. del d

D. d.clear()

Answer(s): D

13. Which one of the lines should you put in the snippet below to match the expected output?

Expected output:

```
1 | [4, 1, 7, 2, 'A']
```

Code:

```
1 | list = ['A', 2, 7, 1, 4]
2 |
3 | # enter code here
4 |
5 | print(list)
```

A. reverse(list)

B. list.reversed()

C. list.reverse()

D. reversed(list)

Answer(s): C

14. An alternative name for a data structure called a stack is:

A. LIFO

B. FIFO

C. FOLO

Answer(s): A

15. Take a look at the snippet and choose one of the following statements which is true:

```
1 | nums = []  
2 | vals = nums  
3 | vals.append(1)
```

A. vals is longer than nums

B. nums and vals are of the same length

C. nums is longer than vals

Answer(s): B

16. How many elements does the L list contain?

```
1 | L = [i for i in range(-1, -2)]
```

A. one

B. two

C. three

D. zero

Answer(s): D

17. Which of the following sentences are true about the code? (Choose two.)

```
1 | nums = [1, 2, 3]  
2 | vals = nums
```

A. nums and vals are different lists

B. vals is longer than nums

C. nums and vals are different names of the same list

D. nums and vals have the same length

Answer(s): C D

18. The second assignment:

```
1 | vals = [0, 1, 2]
2 | vals[0], vals[1] = vals[1], vals[2]
```

A. extends the list

B. doesn't change the list's length

C. shortens the list

Answer(s): B

19. Which function does in-place reversal of objects in a list?

A. list.sort([func])

B. list.pop(obj=list[-1])

C. list.remove(obj)

D. list.reverse()

Answer(s): D

20. What snippet would you insert in the line indicated below to print The highest number is 10 and the lowest number is 1. to the monitor?

```
1 | data = [10, 2, 1, 7, 5, 6, 4, 3, 9, 8]
2 | # insert your code here
3 | print(
4 |     ('The highest number is {} ' +
5 |     'and the lowest number is {}.'.format(high, low)
6 | )
```


A. None of the above.

B.

C.

D.

Answer(s): D
