

# Python assessment BC-101

Points: 27/30

✓ **Correct** 1/1 Points

1

Picture yourself as a Python wizard navigating the world of classes. Now, tell me, what's the magical role of the init method?

- ☒ Defining instance variables
- ☐ Defining class methods
- ☐ Initializing class attributes
- ☐ Performing cleanup operations

✓ **Correct** 1/1 Points

2

What will be the output of the following Python code?

- ☒ "Done"

- ☐ 0, 1, 2, "Done"
- ☐ This code will raise an error.
- ☐ No output will be displayed.

✓ **Correct** 1/1 Points

3

What type of inheritance is illustrated in the following Python code?

- ☒ Multi-level inheritance
- ☐ Multiple inheritance
- ☐ Hierarchical inheritance
- ☐ Single-level inheritance

✓ **Correct** 1/1 Points

4

What will be the output of the following Python code?

- ☒ ['ab', 'cd']
- ☐ ['AB', 'CD']
- ☐ [None, None]

☐ none of the mentioned

✓ **Correct** 1/1 Points

5

What will be the output of the following Python code?

☐ Chaithra

☐ C

☐ Error

☒ a

✓ **Correct** 1/1 Points

6

What will be the output of the following Python code?

☒ 9.0

☐ None

☐ 9

☐ None of the mentioned

✓ **Correct** 1/1 Points

7

What will be the output of the following Python code?

- ☒ ('we', 'are', 'humans')
- ☐ (we, are, humans)
- ☐ ('we', 'humans')
- ☐ 'we are humans'

✓ **Correct** 1/1 Points

8

Which of the following statements about list comprehensions in Python is true?

- ☐ List comprehensions can only be used with lists.
- ☒ List comprehensions can be used to create new lists by applying an expression to each item in an iterable.
- ☐ List comprehensions can only contain if-else statements for conditional filtering.
- ☐ List comprehensions cannot be nested.

✓ **Correct** 1/1 Points

9

You have a Python script named `main.py` and a module named `my_module.py` in the same directory. You want to import a function `my_function` from `my_module.py` into `main.py`. Which import statement should you use?

- ☐ import my\_module
- ☒ from my\_module import my\_function
- ☐ import main
- ☐ from main import my\_function

✓ **Correct** 1/1 Points

10

Imagine you're creating a Python function, and you want to set a value that will be used if the caller doesn't provide one. How would you go about defining this default argument?

- ☐ By using the keyword "default"
- ☐ By placing it in square brackets [ ]
- ☐ By using the "default" keyword inside the function
- ☒ By assigning a value in the function definition

✓ **Correct** 1/1 Points

11

You want to generate random numbers within a specific range in Python. Which module should you use to achieve this?

- ☐ math
- ☒ random
- ☐ numbers

☐ randint

✓ **Correct** 1/1 Points

12

What will be the output of the following Python code?

☐ error

☐ 1 2 3 4

☐ a b c d

☒ 0 1 2 3

✓ **Correct** 1/1 Points

13

In Python, what is the purpose of the \*args and \*\*kwargs syntax in function definitions?

☐ They are used to specify the number of arguments a function can accept.

☐ They are used to define optional arguments in a function.

☒ They are used to accept a variable number of positional and keyword arguments in a function.

☐ They are used to create decorators for functions.

✓ **Correct** 1/1 Points

14

What will be the output of the following Python code?

- ☐ 120
- ☐ Nothing is printed
- ☐ Error, method factorial doesn't exist in math module
- ☒ Error, the statement should be: print(factorial(5))

✓ **Correct** 1/1 Points

15

What is the output of the following code?

- ☐ [3, 6, 9]
- ☐ [3, 6, 9, 3, 6, 9, 3, 6, 9]
- ☐ [1, 1, 1, 2, 2, 2, 3, 3, 3]
- ☒ [1, 2, 3, 1, 2, 3, 1, 2, 3]

✓ **Correct** 1/1 Points

16

Imagine you're working on a Python program, and you have a dictionary with key-value pairs. You now need to perform a specific operation on it. How would you go about removing a key-value pair from this dictionary?

- ☐ Using the "remove" method
- ☐ Using the "delete" method
- ☒ Using the "pop" method
- ☐ Using the "discard" method

✓ **Correct** 1/1 Points

17

What is the output of the following code?

- ☒ [1, 2, 3]
- ☐ [1]
- ☐ [3, 2, 1]
- ☐ [1, 3]

✗ **Incorrect** 0/1 Points

18

How can you create a loop that iterates in reverse order and prints from n to 1?

- ☐ for i in range(n, 0, -1):



- ☒ for i in range(0, n, -1):
- ☐ for i in range(n, -1, -1):
- ☐ for i in range(0, n):

✓ **Correct** 1/1 Points

19

Imagine you're working on a Python project, and you need to incorporate a new piece of information into an existing dictionary. How would you go about adding a new key-value pair to that dictionary in Python?

- ☐ Using the "add" method
- ☐ Using the "insert" method
- ☒ Using the "update" method
- ☐ using "push" method

✓ **Correct** 1/1 Points

20

What is the result of the following code?

- ☐ [1, 2, 3]
- ☒ [1, 2, 3, [4, 5]]
- ☐ [1, 2, 3, 4, 5]

☐ [1, 2, 3, 5, 4]

✓ **Correct** 1/1 Points

21

You have a list numbers containing integers, and you want to create a new list squares with the squares of the numbers in the original list using a list comprehension. Which code accomplishes this?

- ☒ squares = [x \*\* 2 for x in numbers]
- ☐ squares = (x \*\* 2 for x in numbers)
- ☐ squares = {x \*\* 2 for x in numbers}
- ☐ squares = {x: x \*\* 2 for x in numbers}

✓ **Correct** 1/1 Points

22

What will be the output of the following Python code snippet?

- ☒ ['t', 'o', 'r', 'r', 'y', 'h', 'a', 'r', 'r', 'i', 's']
- ☐ 'torryharris'
- ☐ ['torryharris']
- ☐ torryharris

✓ **Correct** 1/1 Points

23

What will be the output of the following Python code snippet?

- ☒ [0, 1, 2]
- ☐ [1, 2, 5]
- ☐ error, \*\*+ is not a valid operator
- ☐ error, ',' is not allowed

✓ **Correct** 1/1 Points

24

Imagine you're tasked with developing your own Python package from scratch. What steps would you take to create this custom package?

- ☒ By creating a directory with a specific name and placing Python files in it
- ☐ By using a special Python keyword
- ☐ By installing it from the Python Package Index (PyPI)
- ☐ By using the "import" statement

✓ **Correct** 1/1 Points

25

Imagine you're diving into Python programming, and you stumble upon a mysterious object called "None." Can you explain what the None object represents in Python?

- ☐ It represents an empty string.
- ☐ It represents a boolean value of False.
- ☒ It represents a placeholder for an empty or missing value.
- ☐ It represents an undefined variable.

✗ **Incorrect** 0/1 Points

26

What will be the output of the following Python code?

- ☐ Heeeo
- ☒ Heelo
- ☐ Heleo
- ☐ None

✗ **Incorrect** 0/1 Points

27

What is the output of the following code?

☐ 5☒ 6☐ 7☐ This code will raise an error.

✓ **Correct** 1/1 Points

28

Imagine you're a detective investigating Python's file operations. In your quest for answers, you stumble upon the "with" statement. What role does this statement play when you're handling files in Python?

☐ It defines a new file☒ It closes the file automatically after use☐ It prints the contents of the file☐ It reads the file contents

✓ **Correct** 1/1 Points

29

What is the output of the following code?

☒ 0, 1, 2☐ [0, 1, 2]☐ generate\_numbers(3)

☐ This code will raise an error.

✓ **Correct** 1/1 Points

30

Imagine you're teaching a beginner Python programmer, and they ask you, "How can I create a function in Python that doesn't do anything?" How would you guide them to define an empty function?

- ☐ empty\_function:
- ☒ def empty\_function():
- ☐ define empty\_function():
- ☐ function empty\_function():

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