

# Python MCQs

## Advanced Level (10 Questions)

1. What does the 'yield' keyword do in Python?
  - a) A. It is used to create a generator function
  - b) B. It is used to return a value from a function
  - c) C. It is used to raise an exception
  - d) D. It is used to import modules
  
2. What is the difference between 'deepcopy' and 'copy' in Python?
  - a) A. 'deepcopy' creates a shallow copy while 'copy' creates a deep copy
  - b) B. 'deepcopy' creates a deep copy while 'copy' creates a shallow copy
  - c) C. They both create shallow copies
  - d) D. They both create deep copies
  
3. Which of the following statements is true about Python's Global Interpreter Lock (GIL)?
  - a) A. GIL allows multiple threads to execute Python code simultaneously
  - b) B. GIL prevents multiple threads from executing Python code simultaneously
  - c) C. GIL is only applicable to Python 2.x
  - d) D. GIL is used for memory management in Python
  
4. What is the output of the following code snippet? `x = 5 y = 2 print(eval('x + y'))`
  - a) A. 7
  - b) B. 'x + y'
  - c) C. 5 + 2
  - d) D. Syntax Error
  
5. Which module in Python is used for working with regular expressions?
  - a) A. 're'
  - b) B. 'regex'
  - c) C. 'regex.py'
  - d) D. 'regexp'
  
6. What does the 'sys.argv' list contain in Python?
  - a) A. The list of all imported modules
  - b) B. The list of all command line arguments passed to a Python script

- c) C. The list of all built-in functions
- d) D. The list of all environment variables

7. Which of the following is NOT a standard data type in Python?

- a) A. List
- b) B. Tuple
- c) C. Dictionary
- d) D. Set

8. What does the 'super()' function do in Python?

- a) A. It returns the parent class object
- b) B. It calls the base class constructor
- c) C. It creates a new instance of the class
- d) D. It returns the child class object

9. What is the output of the following code snippet? `print(3 * 'abc')`

- a) A. 'abcabcabc'
- b) B. 'abc abc abc'
- c) C. 'abc3'
- d) D. Syntax Error

10. Which of the following is NOT a valid way to open a file in Python?

- a) A. `open('file.txt', 'r')`
- b) B. `open('file.txt', 'w')`
- c) C. `open('file.txt', 'a')`
- d) D. `open('file.txt', 'execute')`

# Answers

1. a) A. It is used to create a generator function
2. b) B. 'deepcopy' creates a deep copy while 'copy' creates a shallow copy
3. b) B. GIL prevents multiple threads from executing Python code simultaneously
4. a) A. 7
5. a) A. 're'
6. b) B. The list of all command line arguments passed to a Python script
7. d) D. Set
8. b) B. It calls the base class constructor
9. a) A. 'abccababc'
10. d) D. open('file.txt', 'execute')