

## **Test**

## **Basics of Python List**

## **Section 1: Multiple Choice Questions (MCQs)**

- 1. Which of the following correctly creates a list in Python?
  - a) list =  $\{1, 2, 3, 4\}$
  - b) list = (1, 2, 3, 4)
  - c) list = [1, 2, 3, 4]
  - d) list = <1, 2, 3, 4>
- 2. What will be the output of the following code?

```
my_list = [1, 2, 3, 4]
print(my_list[2])
```

- a) 1
- b) 2
- c) 3
- d) 4
- 3. Which method is used to add an element to the end of a list?
  - a) insert()
  - b) append()
  - c) extend()
  - d) add()
- 4. What will be the output of the following code?

```
my_list = [1, 2, 3]
my_list.append([4, 5])
print(my_list)
```

- a) [1, 2, 3, 4, 5]
- b) [1, 2, 3, [4, 5]]
- c) [1, 2, 3, 4], [5]
- d) Error
- 5. How do you remove an element from a specific index in a list?
  - a) remove()
  - b) pop()
  - c) delete()
  - d) discard()

## **Section 2: Practical Questions**

- 1. **List Creation:** Write a Python program to create a list of 5 numbers and print the list.
- 2. **Accessing Elements:** Given the list my\_list = ['apple', 'banana', 'cherry', 'date'], write code to print the second element from the list.
- 3. **List Modification:** Write a Python program to replace the third element of a list with the value 100.
- 5. **List Slicing:** Given the list numbers = [10, 20, 30, 40, 50, 60, 70], write code to print only the first four elements using slicing.
- 6. **List Sorting:** Write a Python program to sort a list of numbers in ascending order.
- 7. **List Filtering:** Write a Python program that takes a list of numbers and prints only the even numbers.
- 8. **Finding Maximum and Minimum:** Write a Python program to find the maximum and minimum values in a list of integers.

Test 2