

Test

Test: Lists in Python

Section 1: Multiple Choice Questions (MCQs)

- 1. How do you add an item to the end of a list in Python?
 - a) list.add(item)
 - b) list.append(item)
 - c) list.insert(item)
 - d) list.extend(item)
- 2. What method removes a specific item from a list?
 - a) remove()
 - b) delete()
 - c) discard()
 - d) pop()
- 3. What will be the output of the following code?

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

- a) [3, 1, 4, 1, 5]
- b) [1, 1, 3, 4, 5]
- c) [5, 4, 3, 1, 1]
- d) [1, 3, 4, 5, 1]
- 4. Which of the following statements correctly creates a copy of a list?
 - a) new_list = old_list.copy()

- b) new_list = list(old_list)
- c) All of the above
- 5. What is the result of the following operation?

```
list1 = [1, 2, 3]
list2 = [4, 5]
list3 = list1 + list2
print(list3)
```

- a) [1, 2, 3, 4, 5]
- b) [1, 2, 3, [4, 5]]
- c) [[1, 2, 3], [4, 5]]
- d) [4, 5, 1, 2, 3]

Section 2: Practical Questions

- 1. Write a Python program to add the following items to a list and print the final list:
 - Create a list with initial values: ['apple', 'banana', 'cherry']
 - Add 'orange' to the list.
 - Insert 'grape' at the second position.
 - · Print the final list.
- 2. Write a Python function that removes all occurrences of the number 3 from a given list.
- 3. Given a list of numbers: [9, 3, 6, 1, 8, 2], write a Python program to sort the list in ascending order and print the result.
- 4. Write a Python program to create a copy of a list and modify the copied list without changing the original list.
- 5. Write a Python program to join two lists:

```
list1 = ['Hello', 'Python']
```

Test 2

```
list2 = ['World', '!']
```

The output should be: ['Hello', 'Python', 'World', '!']

Test 3