

# PYTHON TEST - 1.7 (MUTABLE AND IMMUTABLE TYPES)

Total points 50/50 ?

Mutable and Immutable

STUDENT NAME \*

VIVA

✓ 1. Which of the following is **mutable** in Python? \* 1/1

- a) str
- b) tuple
- c) list
- d) int



✓ 2. Which of the following is **immutable**? \* 1/1

- a) set
- b) list
- c) dict
- d) tuple



✓ 3. Strings in Python are: \*

1/1

- a) mutable
- b) immutable
- c) constant only
- d) None of these



✓ 4. Which of the following data types are immutable? \*

1/1

- a) tuple
- b) int
- c) str
- d) All of these



✓ 5. Which of the following is mutable? \*

1/1

- a) dict
- b) list
- c) set
- d) All of these



✓ 6. What happens if you try to modify a string in Python? \*

1/1

- a) It changes directly
- b) It throws an error
- c) It returns None
- d) It becomes a list



✓ 7. Which of the following is mutable? \*

1/1

- a) bytes
- b) bytearray
- c) frozenset
- d) tuple



✓ 8. Which is immutable? \*

1/1

- a) frozenset
- b) set
- c) dict
- d) list



✓ 9. What is the mutability of a dictionary? \*

1/1

- a) Mutable
- b) Immutable
- c) Depends on keys
- d) None



✓ 10. What is the mutability of an integer in Python? \*

1/1

- a) Mutable
- b) Immutable



✓ 11. Why are strings immutable? \*

1/1

- a) For memory efficiency
- b) For security reasons
- c) To allow string interning
- d) All of the above



✓ 12. What is the result of: \*

1/1

```
s = "hello"
```

```
s[0] = "H"
```

- a) "Hello"
- b) "hello"
- c) Error
- d) "hEllo"



✓ 13. Tuples are immutable because: \*

1/1

- a) They are stored as read-only
- b) They prevent accidental modification
- c) They improve performance
- d) All of the above



✓ 14. Which of these supports item reassignment? \*

1/1

- a) str
- b) tuple
- c) list
- d) int



✓ 15. Which is correct about tuples? \*

1/1

- a) They can contain mutable objects
- b) They themselves cannot be changed
- c) Both (a) and (b)
- d) None



✓ 16. A tuple inside a tuple is still: \*

1/1

- a) Mutable
- b) Immutable



✓ 17. A tuple containing a list is: \*

1/1

- a) Fully immutable
- b) Partially mutable
- c) Mutable



✓ 18. "abc" + "def" creates: \*

1/1

- a) A new string object
- b) Modifies original string
- c) Error



✓ 19. "python".replace("p", "P") results in: \*

1/1

- a) "Python" (new string created)
- b) Modifies original string
- c) Error



✓ 20. Immutable objects in Python: \*

1/1

- a) Cannot be modified after creation
- b) Can be changed with append()
- c) Are always faster
- d) Cannot be deleted



✓ 21. Which of the following is mutable? \*

1/1

- a) list
- b) dict
- c) set
- d) All of the above



✓ 22. Lists are mutable because: \*

1/1

- a) They allow appending and removing items
- b) They allow item assignment
- c) They change without creating new objects
- d) All of the above



✓ 23. What is the result of: \*

1/1

a = [1,2,3]

b = a

b[0] = 10

print(a)

- a) [1,2,3]
- b) [10,2,3]
- c) Error



✓ 24. Sets are: \*

1/1

- a) Mutable
- b) Immutable



✓ 25. Frozensets are: \*

1/1

- a) Mutable
- b) Immutable



✓ 26. Dict keys must be: \*

1/1

- a) Mutable
- b) Immutable
- c) Either



✓ 27. Dict values can be: \*

1/1

- a) Only immutable
- b) Only mutable
- c) Any data type



✓ 28. Adding new elements to a dictionary is possible because it is: \*

1/1

- a) Mutable
- b) Immutable



✓ 29. Which of the following is a mutable mapping type? \*

1/1

- a) dict
- b) list
- c) set
- d) tuple



✓ 30. Which is immutable? \*

1/1

- a) set
- b) frozenset
- c) dict
- d) list



✓ 31. Immutable objects are stored in: \* 1/1

- a) Constant memory locations
- b) Variable memory locations



✓ 32. Mutable objects share references because: \* 1/1

- a) They can change in place
- b) They are copied always
- c) They are immutable



✓ 33. When you modify a list, Python: \* 1/1

- a) Creates a new object
- b) Modifies the existing object



✓ 34. When you modify a string, Python: \* 1/1

- a) Creates a new object
- b) Modifies the existing object



✓ 35. Which type is hashable? \*

1/1

- a) list
- b) dict
- c) tuple
- d) set



✓ 36. Hashable objects must be: \*

1/1

- a) Mutable
- b) Immutable



✓ 37. Can a list be used as a dictionary key? \*

1/1

- a) Yes
- b) No



✓ 38. Can a tuple be used as a dictionary key? \*

1/1

- a) Yes
- b) No



✓ 39. Why can't lists be dictionary keys? \*

1/1

- a) They are mutable
- b) They are too big
- c) They are unordered



✓ 40. Immutable types in Python are generally: \*

1/1

- a) Faster
- b) Slower



✓ 41. Which of the following are immutable types? \*

1/1

- a) int, float, str, tuple
- b) list, set, dict
- c) list, tuple, str
- d) dict, int, set



✓ 42. Which of the following are mutable types? \*

1/1

- a) list, dict, set, bytearray
- b) str, tuple, frozenset
- c) int, float, str
- d) tuple, dict, str



✓ 43. What happens when two variables reference the same list and one is changed? \*1/1

- a) Both see the change
- b) Only one changes
- c) Error



✓ 44. Immutable objects are safe to use as: \* 1/1

- a) List elements
- b) Dictionary keys
- c) Set elements
- d) All of the above



✓ 45. Mutable default arguments in functions can cause: \* 1/1

- a) Errors
- b) Unexpected behavior
- c) Faster execution
- d) Nothing



✓ 46. The id() of an immutable object changes when modified. \* 1/1

- a) True
- b) False



✓ 47. The id() of a mutable object changes when modified. \* 1/1

- a) True
- b) False



✓ 48. Which of these will create a new object? \* 1/1

- a) `x = "hello"; x += "world"`
- b) `x = [1,2]; x.append(3)`



✓ 49. Which of these modifies in place? \* 1/1

- a) `list.append()`
- b) `str.replace()`



✓ 50. Which statement is correct? \* 1/1

- a) All immutable objects are hashable
- b) All mutable objects are hashable
- c) Only mutable objects can be dict keys
- d) Only lists are immutable



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