

Multiple Choice Questions

1. Which of the following is a mutable type?

- a) Strings
- b) Lists
- c) Tuples
- d) Frozenset

2. What will be the output of the following code?

```
t1 = (1, 2, 3, 4)  
t1.append((5, 6, 7))  
print(len(t1))
```

- a) Error
- b) 2
- c) 1
- d) 5

3. What is the correct syntax for creating a tuple?

- a) ["a","b","c"]
- b) ("a","b","c")
- c) {"a","b","c"}
- d) {}

4. Assume air_force = ("f15", "f22a", "f35a"). Which of the following is incorrect?

- a) print(air_force[2])
- b) air_force[2] = 42
- c) print(max(air_force))
- d) print(len(air_force))

5. Gauge the output of the following code snippet.

```
bike = ('d','u','c','a','t','i')  
bike [1:3]
```

- a) ('u', 'c')
- b) ('u', 'c', 'c')
- c) ('d', 'u', 'c')
- d) ('a', 't', 'i')

6. What is the output of the following code?

```
colors = ("v", "i", "b", "g", "y", "o", "r")
```

```
for i in range(0, len(colors),2):
```

```
    print(colors[i])
```

- a) ('i', 'b')
- b) ('v', 'i', 'b')
- c) ['v', 'b', 'y', 'r']
- d) ('i', 'g', 'o')

7. What is the output of the following code snippet?

```
colors = ("v", "i", "b", "g", "y", "o", "r")
```

```
2 * colors
```

- a) ['v', 'i', 'b', 'g', 'y', 'o', 'r']
- b) ('v', 'i', 'b', 'g', 'y', 'o', 'r')
- c) ('v', 'v', 'i', 'i', 'b', 'b', 'g', 'g', 'y', 'y', 'o', 'o', 'r', 'r')
- d) ('v', 'i', 'b', 'g', 'y', 'o', 'r', 'v', 'i', 'b', 'g', 'y', 'o', 'r')

8. Predict the output of the following code.

```
os = ('w', 'i', 'n', 'd', 'o', 'w', 's')
```

```
os1 = ('w', 'i', 'n', 'd', 'w', 's', 'o')
```

```
os < os1
```

- a) True
- b) False
- c) 1
- d) 0

9. What is the data type of (3)?

- a) Tuple
- b) List
- c) None
- d) Integer

10. Assume tuple_1 = (7,8,9,10,11,12,13) then the output of tuple_1[1:-1] is.

- a) Error
- b) (8,9,10,11,12)
- c) [8,9,10,11,12]
- d) None

11. What might be the output of the following code:

```
A = ("hello") * 3
```

print(A)

- a) Operator Error
- b) ('hello','hello','hello')
- c) 'hellohellohello'
- d) None of these

12. What is the output of the following code:

```
number_1 = {1,2,3,4,5}
```

```
number_2 = {1,2,3}
```

```
number_1.difference(number_2)
```

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

13. Judge the output of the following code:

```
tuples = (7,8,9)
```

```
sum(tuples, 2)
```

- a) 26
- b) 20
- c) 12
- d) 3

14. tennis = ('steffi', 'monica', 'serena', 'monica', 'navratilova')

```
tennis.count('monica')
```

- a) 3
- b) 0
- c) 2
- d) 1

15. A set is an _____ collection with no _____ items.

- a) unordered, duplicate
- b) ordered, unique
- c) unordered, unique
- d) ordered, duplicate

16. Judge the output of the following:

```
sets_1 = set(['a','b','b','c','c','c','d'])
```

`len(sets_1)`

- a) 1
- b) 4
- c) 5
- d) 7

17. What is the output of the code shown below?

```
s = {1,2,3}
```

```
s.update(4)
```

```
print(s)
```

- a) {1,2,3,4}
- b) {1,2}
- c) {1,2,3}
- d) Error

18. Tuple unpacking requires

- a) an equal number of variables on the left side to the number of items in the tuple.
- b) greater number of variables on the left side to the number of items in the tuple.
- c) less number of variables on the left side to the number of items in the tuple.
- d) Does not require any variables.

19. The statement that is used to create an empty set is

- a) {}
- b) set()
- c) []
- d) ()

20. The _____ functions removes the first element of the set

- a) remove()
- b) delete()
- c) pop()
- d) truncate()

21. The method that returns a new set with items common to two sets is

- a) isdisjoint()
- b) intersection()
- c) symmetric_difference()
- d) union()

22. What is the output of the following code snippet?

```
s1 = {'a','b','c'}  
s2 = {'d'}  
print(s1.union(s2))
```

- a) **{'c', 'd', 'b', 'a'}**
- b) {'a', 'b', 'c', 'd'}
- c) {'b', 'c', 'd', 'a'}
- d) {'d', 'a', 'b', 'c'}

23. The function that makes a sequence by aggregating the elements from each of the iterables is

- a) remove()
- b) update()
- c) frozenset()
- d) **zip()**

24. Predict the output of the following code:

```
even = {'2', '4', '6'}  
odd = {'1', '5', '7 '}  
even.isdisjoint(odd)  
odd.isdisjoint(even)
```

- a) True False
- b) False True
- c) **True True**
- d) False False

25. Which of the following code snippet returns symmetric difference between two sets

- a) **x ^ y**
- b) x & y
- c) x | y
- d) x - y