Multiple Choice Questions

```
Which of the following is a mutable type?
          Strings
a.
b. Lists
c.
         Tuples
d.
   Frozenset
     What will be the output of the following code?
     t1 = (1, 2, 3, 4)
     t1.append((5, 6, 7))
     print(len(t1))
a. Error
    2
b.
c.
    1
d.
3.
     What is the correct syntax for creating a tuple?
    ["a","b","c"]
a.
b. ("a","b","c")
c. {"a","b","c"}
d. {}
4.
    Assume air force = ("f15", "f22a", "f35a"). Which of the following is incorrect?
    print(air force[2])
a.
b.
    air force [2] = 42
c. print(max(air force))
d. print(len(air force))
    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')
    What is the output of the following code?
6.
       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')

os 1 = ('w', 'i', 'n', 'd', 'w', 's', 'o')

os < os 1
```

- a. True
- b. False
- c. 1
- d. (
- 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. 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
      20
b.
      12
c.
d.
      3
14. tennis = ('steffi', 'monica', 'serena', 'monica', 'navratilova') tennis.count('monica')
a.
b.
    0
c. 2
d. 1
15. A set is an _____ collection with no ____
                                                             items.
a. unordered, duplicate
b. ordered, unique
    unordered, unique
16. Judge the output of the following:
      sets_1 = set(['a','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}
       {1,2,3}
    c.
```

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:

- 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
 - $d. \quad x-y$