



Ministry of Higher Education

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Department of Information Science and Engineering ( ISE )

Eighth home work of Introduction to Python Programming:

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)  $x \Delta y$**       B)  $x \& y$       C)  $x | y$       D)  $x - y$

