

Unit 3: Data Structures in Python

Total points 30/30 

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✓ 1. Lists are * 1/1

- A. Immutable
- B. Mutable
- C. Both A & B
- D. None of the above



✓ 2. How to define an empty list * 1/1

- A. list[]
- B. listname=[]
- C. listname[]
- D. list=()



✓ 3. What is the output of list1=[1,2,3] print(list1[1]) *

1/1

- A. 2
- B. 1
- C. 3
- D. 0



✓ 4. Which python function is used to return length? *

1/1

- A. len()
- B. length()
- C. obj.len
- D. none of the mention



✓ 5. Does python allow negative indexing? *

1/1

- Yes
- No
- Maybe



✓ 6. The Slice operation is performed on a list using * 1/1

- A. slice
- B. : (colon)
- C. .(dot)
- D. - (hyphen)



✓ 7. What is the output of * 1/1

```
l1=[1,2,3,4]
l1.append(6)
print(l1)
```

- A. [1, 2, 3, 4, 6]
- B. Error
- C. None
- D. [6,1,2,3,4]



✓ 8. What is the output of * 1/1

```
l1=[1,2,3,4]
l1.insert(2,6)
print(l1)
```

- A. [1, 2, 3, 4, 6]
- B. [6, 1, 2, 3, 4]
- C. [1, 6, 2, 3, 4]
- D. [1, 2, 6, 3, 4]



✓ 9. What is the output of *

1/1

```
l1=[1,2,3,4]
l2=[5,6,7,8]
l2.extend(l1)
print(l2)
```

- A. [1, 2, 3, 4, 5, 6, 7, 8]
- B. [1, 2, 6, 3, 4]
- C. [5, 6, 7, 8, 1, 2, 3, 4]
- D. error



✓ 10. What is the output of *

1/1

```
l1=[1,2,3,4]
l=l1.__len__()
print(l)
```

- A. 4
- B. [1, 2, 3, 4]
- C. 5
- D. error



✓ 11. We can delete element from the list by using, Select correct 1/1 answers *

- A. 'del'
- B. remove()
- C. pop()
- D. clear()
- E. All the above



✓ 12. What will be the output *

1/1

```
l1=[1,2,3,4,[6,7,8],5]
print(l1[4][1])
```

- A. 6
- B. error
- C. 7
- D. [6, 7, 8]



✓ 13. The python tuple is _____ in nature. *


1/1

- A. Unchangeable
- B. Immutable
- C. Both A & B
- D. Mutable



✓ 14. What is the output of *

1/1

```
 t1=('c','w','i','p','e','d','i','a')  
print(t1[3:9])
```

- A. ('p', 'e', 'd', 'i', 'a')
- B. ('i', 'p', 'e', 'd', 'i', 'a')
- C. Slicing tuple is not possible
- D. error

✓

✓ 15. Select the build-in functions of tuple *

1/1

- A. count()
- B. index()
- C. pop()
- D. __add__()
- E. clear()

✓

✓

✓

✓ 16. Does the python set have duplicate elements? *

1/1

- Yes
- No
- Maybe

✓



✓ 17. Does the set supports indexing *

1/1

- Yes
- No
- Maybe



✓ 18. Is slicing allowed in Set *

1/1

- A. allowed
- B. not allowed



✓ 19. What is the output of *

1/1

```
# Set union method
# initialize A and B
A = {1, 2, 3, 4, 5}
B = {4, 5, 6, 7, 8}

# use | operator
# Output: {1, 2, 3, 4, 5, 6, 7, 8}
print(A | B)
```

- A. {1, 2, 3, 4, 5, 6, 7, 8}
- B. {1, 2, 3, 4, 5, 4, 5, 6, 7, 8}
- C. {1, 2, 3, 4, 4, 5, 6, 7, 8}
- D. error



✓ 20. Python dictionaries are _____ *

1/1

- A. Mutable
- B. Immutable



✓ 21. What is the output of *

2/2

```
thisdict = {  
    "brand": "Ford",  
    "model": "Mustang",  
    "year": 1964  
}  
  
thisdict["year"] = 2018  
  
print(thisdict)
```

- {'brand': 'Ford', 'model': 'Mustang', 'year': 2018}
- {'brand': 'Ford', 'model': 'Mustang', 'year': 1964}
- ERROR



✓ 22. What is the output of *

2/2

```
thisdict = {  
    "brand": "Ford",  
    "model": "Mustang",  
    "year": 1964  
}  
if "model" in thisdict:  
    print("Yes, 'model' is one of the keys in the thisdict dictionary")
```

- Yes, 'model' is one of the keys in the thisdict dictionary
- No output
- Error



✓ 23. What is the output of *

2/2

```
thisdict = {  
    "brand": "Ford",  
    "model": "Mustang",  
    "year": 1964  
}  
  
print(len(thisdict))
```

- 6
- 3
- error



✓ 24. What is the output of *

2/2

```
thisdict = {  
    "brand": "Ford",  
    "model": "Mustang",  
    "year": 1964  
}  
thisdict["color"] = "red"  
print(thisdict)
```

- {'brand': 'Ford', 'model': 'Mustang', 'year': 1964, 'color': 'red'}
- {'brand': 'Ford', 'model': 'Mustang', 'year': 1964}
- {'brand': 'Ford', 'model': 'Mustang', 'year': 1964, 'color': '}'
- error



✓ 25. What is the output of *

2/2

```
thisdict = {  
    "brand": "Ford",  
    "model": "Mustang",  
    "year": 1964  
}  
del thisdict  
print(thisdict)
```

- name 'thisdict' is not defined
- {'brand': 'Ford', 'model': 'Mustang', 'year': 1964, 'color': 'red'}
- {'brand': 'Ford', 'model': 'Mustang', 'year': 1964}



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