Name			
ivame			

You will be emailed a Google Forms Virtual Scantron to use to submit your answers.

1. Select all true statements regarding the Python tuple.

- a. We can remove the item from tuple but we cannot update items of the tuple
- b. We cannot delete the tuple
- c. We cannot remove the items from the tuple
- d. We cannot update items of the tuple.
- e. Both c and d are correct

2. What is the output of the following code?

```
tuple1 = (1120, 'a')
print(max(tuple1))
```

- a. TypeError
- b. 1120
- c. 'a'

3. Choose the correct way to access value 20 from the following tuple.

```
aTuple = ("Orange", [10, 20, 30], (5, 15, 25))
```

- a. aTuple[1:2][1]
- b. aTuple[1:2](1)
- c. aTuple[1:2][1]
- d. aTuple[1][1]

4. What is the output of the following tuple operation?

```
aTuple = (100, 200, 300, 400, 500)
aTuple.pop(2)
print(aTuple)
```

- a. (100, 200, 400, 500)
- b. (100, 300, 400, 500)
- c. AttributeError

5. What is the output of the following tuple operation?

```
aTuple = (100,)
print(aTuple * 2)
```

- a. TypeError
- b. (100, 100)
- c. (200)

6. Select which of the following options are true for Python tuples.

- a. A tuple maintains the order of items
- b. A tuple is unordered
- c. We cannot change the tuple once created
- d. We can change the tuple once created
- e. Both a and c are correct

7. What is the output of the following?

```
aTuple = "Yellow", 20, "Red"
a, b, c = aTuple
print(a)
```

- a. ('Yellow', 20, 'Red')
- b. TyepeError
- c. Yellow

8. What is the output of the following code?

```
aTuple = (100, 200, 300, 400, 500)
aTuple[1] = 800
print(aTuple)
```

- a. TypeError
- b. (100, 800, 200, 300, 400, 500)
- c. (800, 100, 200, 300, 400, 500)

9. What is the type of the following variable?

```
aTuple = ("Orange")
print(type(aTuple))
```

- a. list
- b. tuple
- c. array
- d. str

10. What is the output of the following?

```
aTuple = (10, 20, 30, 40, 50, 60, 70, 80)
print(aTuple[2:5], aTuple[:4], aTuple[3:])
```

- a. (30, 40, 50) (10, 20, 30, 40) (40, 50, 60, 70, 80)
- b. (20, 30, 40, 50) (10, 20, 30, 40) (30, 40, 50, 60, 70, 80)

11. A Python tuple can also be created without using parentheses.

- a. False
- b. True

12. What is the output of the following code?

```
aTuple = (100, 200, 300, 400, 500)
print(aTuple[-2])
print(aTuple[-4:-1])
```

- a. IndexError: tuple index out of range
- b. 400
- c. (200, 300, 400)
- d. 400(200, 300, 400)
- e. 400

- a. Lists and tuples both are mutable.
- b. Lists are mutable whereas tuples are immutable.
- c. Lists and tuples both are immutable.
- d. Lists is immutable whereas tuples are mutable

14. Which of the following are correctly declared tuples?

- a. x = ("orange", "yellow", "red")
- b. x = "orange", "yellow", "red"
- c. x = ["orange", "yellow", "red"]
- d. x = "orangeyellowred"
- e. Both a and b are correct

15. Which line of code will give you an error? b = (4, 5, 6, 7, 8)

- a. b[2]
- b. b[0] = 1
- c. b[:3]
- d. b[-2]

16. How would you refer to 3 in the following tuple? c = ((7,5),(5,8),(0,-1),(4,3))

- a. c[0][0]
- b. c(3)
- c. c[8]
- d. c[3][1]

17. What is the index of the following tuple: y = ()

- a. 0
- b. 1
- c. There is none. It is an empty tuple

```
set1 = {10, 20, 30, 40, 50}
set2 = {60, 70, 10, 30, 40, 80, 20, 50}
print(set1.issubset(set2))
print(set2.issuperset(set1))
```

a. False
False

b. True

True

19. Which of the following choices is true?

- a. Option#1
 - Sets are unordered
 - set doesn't allow duplicate
 - sets are written with curly brackets {}
- b. Option #2
 - set object does support indexing
 - set is mutable
- c. Both Option #1 and Option #2 are correct
- d. Neither Option #1 nor Option #2 are correct

20. What is the output of the following set operation?

```
sampleSet = {"Yellow", "Orange", "Black"}
sampleSet.update(["Blue", "Green", "Red"])
print(sampleSet)
```

- a. {'Yellow', 'Orange', 'Red', 'Black', 'Green', 'Blue'}
- b. {'Yellow', 'Orange', 'Black', ["Blue", "Green", "Red"]}
- c. {'Green', 'Black', 'Yellow', 'Blue', 'Red', 'Orange'}
- d. TypeError: update() doesn't allow list as a argument.

21. What is the output of the following?

```
sampleSet = {"Yellow", "Orange", "Black"}
sampleSet.discard("Blue")
print(sampleSet)
```

- a. {'Yellow', 'Orange', 'Black'}
- b. KeyError: 'Blue'
- 22. What is the output of the following set operation.?

```
set1 = {"Yellow", "Orange", "Black"}
set2 = {"Orange", "Blue", "Pink"}
set1.difference_update(set2)
print(set1)
```

- a. {'Black', 'Yellow'}
- b. {'Yellow', 'Orange', 'Black', 'Blue', 'Pink'}
- 23. What is the output of the following set operation.?

```
set1 = {"Yellow", "Orange", "Black"}
set2 = {"Orange", "Blue", "Pink"}

set3 = set2.difference(set1)
print(set3)
```

- a. {'Yellow', "Black', 'Pink', 'Blue'}
- b. {'Pink', 'Blue'}
- c. {'Yellow', "Black'}
- 24. The isdisjoint() method returns True if none of the items are present in both sets, otherwise, it returns False
 - a. True
 - b. False

25. What is the output of the following union operation?

```
set1 = {10, 20, 30, 40}
set2 = {50, 20, "10", 60}
set3 = set1.union(set2)
print(set3)
```

- a. {40, 10, 50, 20, 60, 30}
- b. {40, '10', 50, 20, 60, 30}
- c. {40, 10, '10', 50, 20, 60, 30}
- d. SynatxError: Different types cannot be used with sets

26. What is the output of the following code?

```
aSet = {1, 'PYnative', ['abc', 'xyz'], True}
print(aSet)
```

- a. {1, 'PYnative', ['abc', 'xyz']}
- b. {1, 'PYnative', ['abc', 'xyz'], True}
- c. TypeError
- 27. The union() method returns a new set with all items from both sets by removing duplicates.
 - a. True
 - b. False
- 28. The symmetric_difference() method returns a set that contains all items from both sets, but not the items that are present in both sets.
 - a. True
 - b. False

29. What is the output of the following code?

```
sampleSet = {"Yellow", "Orange", "Black"}
print(sampleSet[1])
```

- a. Yellow
- b. Syntax Error
- c. Orange
- d. Type Error
- 30. Select the correct option(s) to remove "Orange" from the set.

```
sampleSet = {"Yellow", "Orange", "Black"}
```

- a. sampleSet.pop("Orange")
- b. sampleSet.discard("Orange")
- c. del sampleSet ["Orange"]
- 31. What is the output of the following code?

```
aSet = {1, 'PYnative', ('abc', 'xyz'), True}
print(aSet)
```

- a. TypeError
- b. {'PYnative', 1, ('abc', 'xyz'), True}
- c. {'PYnative', 1, ('abc', 'xyz')}
- 32. What is the output of the following code?

```
sampleSet = {"Yellow", "Orange", "Black"}
sampleSet.add("Blue")
sampleSet.add("Orange")
print(sampleSet)
```

- a. {'Blue', 'Orange', 'Yellow', 'Orange', 'Black'}
- b. {'Blue', 'Orange', 'Yellow', 'Black'}
- 33. Select all the correct ways to copy two sets

Which of the following choices is true?

- a. Option#1
 - set2 = set1.copy()
 - set2 = set(set1)
 - set2.update(set1)
- b. Option #2
 - set2 = set1
- c. Both Option #1 and Option #2 are correct
- d. Neither Option #1 nor Option #2 are correct