NAME : _____

CLASS : _____

DATE : _____

Python Tuples , Lists ,Set and Dictionary
36 Questions

1. Tuples in Python are mutable

A False

B True

2. How to create a single element tuple

A (1,)

B {1}

C (1)

D [1]

E tuple([1])

3.
```
numbers = tuple("12345")

print ( numbers)
```
Result of the program above is

A ('1', '2', '3', '4', '5')

B "12345"

C (1, 2, 3, 4, 5)

D 12345

4.
```
numbers = 1,2,3,4,5
print ( type(numbers) )
```
What is the output of the program above

A <class 'tuple'>

B <class 'int'>

C <class 'list'>

D <class 'None'>

5.
```
numbers = 1,"2",3,4,5
print ( type(numbers) )
```
What is the output of the code above

A (1, '2', 3, 4, 5)

B ('1', '2', '3', '4', '5')

C syntax error

D (1, 2, 3, 4, 5)

6.

```
a=(5,6)
b=(5,7)
if (a>b):
    print("a is bigger")
else:
    print("b is bigger")
```

What is the output of the program above ?

A Syntax error : tuples can't be compared

B b is bigger

C a is bigger

7.

```
person = (30, "Name")

age = person[0]

print ( id(person[0]) == id(age) )
```

What is the output of the program above ?

A True

B False

8. Which of these is the correct code for creating a list of names?

A nameList = ("John", "Harry", "Jesse", "John", "Harry", "Harry")

B nameList = John, Harry, Jesse, John, Harry, Harry

C nameList = [John, Harry, Jesse, John, Harry, Harry]

D nameList = ["John", "Harry", "Jesse", "John", "Harry", "Harry"]

9. List items have an index number. In the following list, which item has the index number of 3?
["John", "Harry", "Jesse", "John", "Harry", "Harry"]

A "Jesse"

B "Harry"

C "John"

10. The list needs one more name added to the end - "Felipe". Which piece of code below would do this?
nameList = ["John", "Harry", "Jesse", "John", "Harry", "Harry"]

A nameList.append("Felipe")

B nameList.append["Felipe",7]

C append(nameList,"Felipe")

D nameList.append(Felipe)

11.

```
colours = []
colours.append("blue")
colours.append("green")
colours.append("red")
print(colours[2])
```

What output will this code produce?

A blue

B error

C red

D green

12. Consider this list, what will be the highest index the list can have:
li=[1,2,3,4,5]

A 5

B 3

C 2

D 4

13.
```
a = [1,5,3,1,2,4,1]
print(a.count(1))
```

The count() method returns the number of times the specified element appears in the list.
What is the output of this code?

A 0

B 1

C 2

D 3

14.
```
a = [5,1,2,8,7,3,9]
b = len(a)
if b%2==0:
  print('x')
else:
  print('Y')
```

What is the output of this code?

A Error

B Y

C X

15. Which of the following function is used to count the number of elements in a list ?

A find( )

B count( )

C len( )

D index( )

16.
```
mylist = ["a","b"]
mylist[1] = "c"'
print(mylist)
```

A ["a","c"]

B ["a","b","c"]

C mylist

D ["a","b"]

17. What is the output of program below?

```
bicycles = ['trek', 'cannondale', 'redline', 'specialized']
print(bicycles[-1])
```

A specialized

B cannondale

C trek

D redline

18. a = [2, 5, 8, 1]
print("a[2]")
What is the output above?

A 2

B a[2]

C 8

D 5

19. Which of these is the best description of a list in Python?

A A list is a collection of data that has an order and can be changed

B A list is a lot of variables

C A list is used for shopping

D A list is a collection of data that cannot hold duplicated data and cannot be changed

20.
```
var1 = 1
var2 = 2
var3 = "3"
print(var1 + var2 + var3)
```

A 6

B Error. Mixing operators between numbers and strings are not supported.

C 33

D 123

21. What will be the output?
var1=[**'sam'**, **"Pam"**, 12,44]
var1[3]=**"Ram"**
print(var1)

A ['sam', 'Pam', 'Ram',44]

B ['sam', 'Pam', 12, 44]

C It will give an error

D ['sam', 'Pam', 12, 'Ram']

22. Which of the statements are true for the code below:

```
list1=["Red","Green","Yellow","Orange","Black"]

if "Red" in list1 and "Green" in list1 and "Yellow" in list1:
print("We have all the colors of traffic lights")
```

A None of these

B Print statement will be executed if the list has all the three colors

C It will give syntax error

D Print statement will be executed if the list has red/yellow/Blue

23. Which statement is correct?

A List & Tuple are immutable

B List & Tuple are mutable

C List is immutable && Tuple is mutable

D List is mutable && Tuple is immutable

24.
```
grades = { "Math"        : 4,
           "Physics"     : 3.8,
           "Chemistry"   : 3.6,
           "English"     : 3.7}

print ( grades["Zoology"] )
```

The code snippet above outputs

A -1

B None

C error

D NaN

25.
```
grades = { "Math"        : 4,
           "Physics"     : 3.8,
           "Chemistry"   : 3.6,
           "English"     : 3.7 }

for key in grades :
    print (key)
```

The code above prints

A NaNNaNNaNNaN

B MathPhysicsChemistryEnglish

C NoneNoneNoneNone

D 43.83.63.7

26.
```
grades = { "Math"        : 4,
           "Physics"     : 3.8,
           "Chemistry"   : 3.6,
           "English"     : 3.7 }

list(grades.keys())[2][2]
```

What is the output of the program above

A e

B y

C t

D g

27.

```
# dictionary of student id
# and grade in a particular subject
grades = { 103    : 4,
           101    : 3.8,
           102    : 3.6,
           104    : 3.7}

print ( sorted(grades.keys()) )
```

The output of the code above is

A [3.6, 3.7, 3.8, 4]

B [101, 102, 103, 104]

28.

```
# dictionary of student id
# and grade in a particular subject
grades = { 103    : 4,
           101    : 3.8,
           102    : 3.6,
           104    : 3.7}

print ( sorted(grades.values()) )
```

What is the output of the code above

A [101, 102, 103, 104]

B [3.6, 3.7, 3.8, 4]

29.

```
grades = { 103    : 4,
           101    : 3.8,
           102    : 3.6,
           104    : 3.7}
```

Which of the following code deletes the key 103 and its value

A

```
for key in grades :
    if key == 103 :
        del grades[103]
```

B grades.pop(103)

C del grades["103"]

D grades.pop("103")

E del grades[103]

30. Square brackets in an assignment statement will create which type of data structure? (s=[])

A Set

B Dictionary

C List

D Queue

31. What will be the output of the following Python code?
nums = set([1,1,2,3,3,3,4,4])
print(len(nums))

A 4

B 7

C Error, invalid syntax for formation of set

D 8

32. Which of the following statements is used to create an empty set?

A [ ]

B set()

C ( )

D { }

33. If a={5,6,7}, what happens when a.add(5) is executed?

A. Error as 5 already exists in the set
B. a={5,6,7}
C. a={5,5,6,7}
D. Error as there is no add function for set data type

34. What will be the output of the following Python code?

```
>>> a={3,4,5}
>>> a.update([1,2,3])
>>> a
```

A. {1, 2, 3, 4, 5}
B. Error, duplicate item present in list
C. Error, list can't be added to set
D. Error, no method called update for set data type

35. What will be the output of the following Python code?

```
>>> a={1,2,3}
>>> b=a
>>> b.remove(3)
>>> a
```

A. {1,2}
B. Error, copying of sets isn't allowed
C. Error, invalid syntax for remove
D. {1,2,3}

36. What will be the output of the following Python code?

```
s=set()
type(s)
```

A. <class 'set'>
B. <'set'>
C. class set
D. set

Answer Key

1.a	2.	3.a	4.a
5.a	6.b	7.a	8.d
9.c	10.a	11.c	12.d
13.d	14.b	15.c	16.a
17.a	18.b	19.a	20.b
21.d	22.b	23.d	24.c
25.b	26.a	27.b	28.b
29.	30.c	31.a	32.b
33.b	34.a	35.a	36.a