

Q.1 which of the following code valid ?

```
class B(object):  
    def first(self):  
        print("First method called")  
    def second():  
        print("Second method called")
```

```
ob = B()  
B.first(ob)
```

#Ans. Yes, this method of calling is called unbounded method call

First method called

#Q.2 what will is the output of the following code snippet?

```
func = lambda x: return x  
print(func(2))
```

#Ans. SyntaxError

Q.3 what will be the output of the following code?

```
i = 0  
while i < 3:  
    i = i+1  
print('i is',i)
```

#Ans. i is 3

i is 3

#Q.6 what will be the ouput?

```
x='abcd'  
for i in range(len(x)):  
    print(i.upper())
```

#Ans. Error

#Q.7 Python strings have a property called "immutability". What does this mean?

#Ans. Strings in python can't be cahnged

#Q.22 What will be the output of the code?

```
def even_infinite():
    num = 0
    while True:
        yield num
        num += 2

even_iter_obj = even_infinite()

for i in range(2):
    next(even_iter_obj)

print(next(even_iter_obj))
```

#Ans. 4

4

#Q.40 What will be the output of python code?

```
def a(n):
    if n==0:
        return 0
    elif n==1:
        return 1
    else:
        return a(n-1)+a(n-2)

for i in range(0,4):
    print(a(i),end=" ")
```

#Ans. 0 1 1 2

0 1 1 2

#Q.23 Suppose

```
list1 = [1,2,3]
```

```
print(list1*2)
```

#Ans. [1, 2, 3, 1, 2, 3]

```
[1, 2, 3, 1, 2, 3]
```

#Q.36 What will be the output of python code?

```
def foo(k):  
    k[0] = 1  
q = [0]  
foo(q)  
print(q)
```

#Ans. [1]

```
[1]
```

#Q.39. what will be the output of below code?

```
kvp = {"1":1, "2":2}  
thecopy = kvp  
kvp["1"] = 5  
sum = kvp["1"] + thecopy["1"]  
print(sum)
```

#Ans. 10

```
10
```

#Q.12 What is the length of sys.argv?

#Ans. number of arguments + 1

#Q.19 What is the output of the following code?

```
def myfunc(x, y, z, a):  
    print(x+y)
```

```
nums = [1,2,3,4]
```

```
myfunc(*nums)
```

#Ans. 3

3

#Q. 24

```
x = [
    'a',
    'b',
    {
        'foo':1,
        'bar':
        {
            'x':10,
            'y':20,
            'z':30
        },
        'baz':3
    },
    'c',
    'd'
]
'z' in x[2]
```

#Ans. False

False

#Q. When is the finally block executed?

#Ans. always

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

#Ans. set()

#Q.16 suppose which of the following is incorrect

```
t = (1,2,4,3)
```

#Ans. t[3] = 45

#Q.21 what is the output of the following code ?

```
def f(x):  
    yield x+1  
    print("test")  
    yield x+2
```

```
g=f(9)
```

#Ans. no output

#Q. on which element does the exception occurs?

```
x = ["python", "pandas", "numpy"]
```

```
for i in x:  
    if i[0] != "p":  
        raise Exception("how can you use something that does not start  
with p??")  
    print(i)
```

#Ans. Exception does not occur

#Q.35 what will be the output?

```
goa_bagpack={'tshirts':'Duke NumeroUno Versache',  
'shorts':'nike,ABIBAS,PAMA'}
```

```
def ingoa(tshirts,shorts):  
    print('I should wear',tshirts.split(' ')[0])
```

```
ingoa(**goa_bagpack)
```

#Ans. I should wear Duke

I should wear Duke

#Q.32 what will be the output?

```
list1 = ['a','b','c']  
list1 += 'xx'  
print(list1)
```

#Ans. ['a', 'b', 'c', 'x', 'x']

['a', 'b', 'c', 'x', 'x']

#Q.20 what will be the output?

```
l=[1,2,3,4]  
iter_obj = iter(l)  
  
while True:  
    try:  
        print(next(iter_obj),end='##')  
    except StopIteration:  
        break
```

#Ans. 1##2##3##4##

1##2##3##4##

#Q.25 what will be the output?

```
sum = 0  
for i in range(4):  
    sum+=i
```

```
print(sum)
```

```
sum(34,23)
```

#Ans. 6 followed by TypeError

#Q. 5 what will be the output?

```
t1 = (1,2,4,3)  
t2 = (1,2,3,4)  
t1<t2
```

#Ans. False

False

#Q.30 what will be the output?

```
a={1:"A",2:"B",3:"C"}  
print(a.get(5,4))
```

#Ans. 4

4

#Q.26 <re.Match object; span=(4, 8), match='aaaa'>
import re
a=re.search("aaaa", "alohaaaa",0)
print(a)

#Ans. re.search("aaaa", "alohaaaa",0)

<re.Match object; span=(4, 8), match='aaaa'>

#Q26. what will be the output?

```
def say(message, times=1):  
    print(message *times)  
say('Hello')  
say('World',5)
```

#Ans. Hello

WorldWorldWorldWorldWorld

Hello
WorldWorldWorldWorldWorld

#Q.34 what will be the output?

```
def outerFun(a,b):  
    def innerFun(c,d):
```

```
        return c + d
    return innerFun(a,b)
```

```
res = outerFun(5,10)
print(res)
```

#Ans. 15

15

#Q.33 what will be the output?

```
def d(f):
    def n(*args):
        return '$' + str(f(*args))
    return n
@d
def p(a, t):
    return a + a*t

print(p(100,0))
```

#Ans. \$100

\$100

#Q.1

```
class dog:
    def walk(self):
        return "*walking*"
    def speak(self):
        return "woof!"
class jackrusselterrier(dog):
    def speak(self):
        return "arff!"
```

```
bobo = jackrusselterrier()
bobo.speak()
```

#Ans. 'arff!'

'arff!'

```
#Q.2
import re
regx = '(\w+)8(\w+)9(\w+)'
m = re.search(regx, 'apple8mango9kiwi')
len(m.groups())
```

#Ans. 3

3

```
#Q.
class x:
    def __init__(self):
        print("inside x",end='*')

    def fun(self):
        print("fun of x",end='*')

class A(x):
    def __init__(self):
        print("inside A",end='*')

    def fun(self):
        print("fun of A",end='*')

class B(x):
    def __init__(self):
        print("inside B",end='*')

    def fun(self):
        print("fun of B",end='*')

class C(A,B):
    def __init__(self):
        print("inside C",end='*')
        super().__init__()

obj = C()
```

*#Ans. inside C*inside A**

inside C*inside A*

#Q. which of the following method that iterator object must be implemented?

#Ans. __iter__0 and__next__