1. **1. Question**

**10 points**

**Determine the output of the below Python code fragment?**

var1 = True

var2 = False

var3 = False

if var1 or var2 and var3:

print("True")

else:

print("False")

* + 1.  False
  + 2.  Compile time error
  + 3.  True
  + 4.  Runtime error
  + 5.  None of these

Incorrect

1. **2. Question**

**10 points**

**Which of the following is the output of the below Python code?**

mylist=['a', 'aa', 'aaa', 'b', 'bb', 'bbb']

print(mylist[:-1])

* + 1.  Error
  + 2.  [a, aa, aaa, b, bb]
  + 3.  ['a', 'aa', 'aaa', 'b', 'bb', 'bbb']
  + 4.  ['a', 'aa', 'aaa', 'b', 'bb']
  + 5.  None of the mentioned
  + 6.  aaaaaabbb

Correct

1. **3. Question**

**10 points**

**Which of the following statements would create an instance of Ubuntu class correctly?**

class Ubuntu:

def \_\_init\_\_(self, ramsize):

self.ram = ramsize

self.type = 'server'

* + 1.  Ubuntu = Ubuntu('server', 2000)
  + 2.  Ubuntu = Ubuntu(2000)
  + 3.  Ubuntu = Ubuntu('client', 2000)
  + 4.  Ubuntu = Ubuntu()
  + 5.  None of these

Incorrect

1. **4. Question**

**10 points**

**Which of the following is the output of the below Python code snippet?**

ints = set([1,1,2,3,3,3,4])

print(len(ints))

* + 1.  4
  + 2.  1
  + 3.  5
  + 4.  7

Correct

1. **5. Question**

**10 points**

**Which of the following is the output of the below Python code?**

try:

if '1' != 1:

raise "firstError"

else:

print("firstError has not occured")

except "firstError":

print("firstError has occured")

* + 1.  firstError has not occured
  + 2.  firstError has occured
  + 3.  TypeError occurs
  + 4.  ValueError occurs

Incorrect

***Note – Exceptions must be old-style classes or derived from BaseException. There is no such inheritance here.***

1. **6. Question**

**10 points**

**Which of the following is the output of the below piece of code?**

import random

print(random.seed(3))

* + 1.  Error
  + 2.  None of the mentioned
  + 3.  Null
  + 4.  None
  + 5.  3

Incorrect

***Note –  The function random.seed() always returns a None.***

1. **7. Question**

**10 points**

**Which of the following is the output of the below Python code?**

def test1(param):

return param

def test2(param):

return param \* 2

def test3(param):

return param + 3

result = test1(test2(test3(1)))

print(result)

* + 1.  3
  + 2.  1
  + 3.  6
  + 4.  8

Incorrect

1. **8. Question**

**10 points**

**Which of the following is the output of the lines of code specified below?**

x = 1

print(++++x)

* + 1.  1
  + 2.  4
  + 3.  2
  + 4.  3

Correct

1. **9. Question**

**10 points**

**Which of the following is the output of the below Python code?**

var1 = lambda var: var \* 2

ret = lambda var: var \* 3

result = 2

result = var1(result)

result = ret(result)

result = var1(result)

print(result)

* + 1.  12
  + 2.  7
  + 3.  24
  + 4.  48
  + 5.  36

Correct

1. **10. Question**

**10 points**

**Which of the following is the correct output of the call to below line of code?**

print(list("hello"))

* + 1.  ['h' 'e' 'l' 'l' 'o']
  + 2.  hello
  + 3.  [h,e,l,l,o]
  + 4.  None of these
  + 5.  ['h', 'e', 'l', 'l', 'o']

Incorrect

1. **11. Question**

**10 points**

**Which of the following is the output of the below Python code?**

def test():

try:

return 1

finally:

return 2

result = test()

print(result)

* + 1.  1
  + 2.  2
  + 3.  Runtime error.
  + 4.  Compile error, there is more than one return statement in a single try-finally block.
  + 5.  None of these

Incorrect

***Note – The “***finally***” block is executed even there is a return statement in the try block.***

1. **12. Question**

**10 points**

**Which of the following is the output of the code given below?**

mylist=['abc','cde','abcde','efg']

print(max(mylist))

* + 1.  cde
  + 2.  efg
  + 3.  abc
  + 4.  'abcde'
  + 5.  abcde
  + 6.  "abcde"

Incorrect

1. **13. Question**

**10 points**

**Which of the following for loops would yield the below number pattern?**  
Note: Python 2.7

11111

22222

33333

44444

55555

* + 1. 
  + for i in range(1, 6):

print(i, i, i, i, i)

* + 2. 
  + for i in range(1, 5):

print(str(i) \* 5)

* + 3. 
  + for i in range(1, 6):

print(str(i) \* 5)

* + 4. 
  + for i in range(0, 5):

print(str(i) \* 5)

Incorrect

1. **14. Question**

**10 points**

**Which of the following is the output of the instructions mentioned below?**

def test1(param):

return str(param)

def test2(param):

return str(2 \* param)

result = test1(1) + test2(2)

print(result)

* + 1.  3
  + 2.  Compile time error
  + 3.  14
  + 4.  5

Incorrect

1. **15. Question**

**10 points**

**Which of the following is the output of the Python code fragment given below?**

var1 = 4.5

var2 = 2

print(var1//var2)

* + 1.  22.5
  + 2.  2.25
  + 3.  2.0
  + 4.  2.5
  + 5.  20.0

Incorrect

1. **16. Question**

**10 points**

**Which of the following is the output of the instructions given below?**

mylist=[1, 5, 9, int('0')]

print(sum(mylist))

* + 1.  15
  + 2.  16
  + 3.  5
  + 4.  1
  + 5.  63
  + 6.  None of the mentioned

Incorrect

1. **17. Question**

**10 points**

**Which of the following correctly describes the output of the below Python code?**

testArr = [11, 22, 33, 22, 11]

result = testArr[0]

for iter in testArr:

if iter > result:

result = iter

print(result)

* + 1.  result is the average of all the number in the list.
  + 2.  result is the smallest number in the list.
  + 3.  result is the largest number in the list.
  + 4.  None of these
  + 5.  result is the sum of all the number in the list.

Incorrect

1. **18. Question**

**10 points**

**Which of the following is the output of the below Python code?**

def myfunc():

try:

print('Monday')

finally:

print('Tuesday')

myfunc()

* + 1.  Monday
  + 2.  undefined exception
  + 3.  None of these
  + 4.  Monday Tuesday
  + 5.  Tuesday
  + 6.  Tuesday Monday

Incorrect

***Note – No error occurs in the try block so ‘Monday’ is printed. Then the finally block is executed and ‘Tuesday’ is printed.***

1. **19. Question**

**10 points**

**Which of the following is the output of the below Python code?**  
[Note: Python 2.7.5 and above]

mylist=['a', 'aa', 'aaa', 'b', 'bb', 'bbb']

print(mylist[int(-1/2)])

* + 1.  bb
  + 2.  aaa
  + 3.  bbb
  + 4.  'bbb'
  + 5.  b
  + 6.  a
  + 7.  None of the mentioned

Incorrect

1. **20. Question**

**10 points**

**Which of the following statements best describes the behavior of the random.shuffle(mylist) as being used in the below code fragment?**

import random

mylist = [10, 20, 30]

random.shuffle(mylist)

print(mylist)

* + 1.  It'll not modify the list. This function is just a placeholder and yet to be implemented.
  + 2.  return a list where elements 10, 20 and 30 would be at random positions.
  + 3.  shuffle the elements of the list in-place.
  + 4.  shuffle the elements for the no. of times equal to the size of the list.

Incorrect