## Python for Data Analysis Test! (B. Tech DS)

1. Roll no \*

J045

2. Write the output of the following code.

r = lambda q: q \* 4

s = lambda q: q \* 3

x = 3

x = r(x)

x = s(x)

x = r(x)

print (x) \* (3 Points)

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3. import numpy as np a=np.array([3,5,7]) print(a) * (2 Points)
[3,5]
<b>[5,7]</b>
[3,5,7]
one of these
4. Datarefers to the graphical representation of the data * (2 Points)
visualization
plotting
analysis
handling
E CAR ID 4
5. SAP ID *
70092100083
70092100083  6. Which of these is not a core data type of python programming language? *
70092100083  6. Which of these is not a core data type of python programming language? * (1 Point)
6. Which of these is not a core data type of python programming language? * (1 Point)  class

```
7. List = [True, 30, 10]
  List.insert(2, 5)
  print(List, "Sum is: ", sum(List)) * (2 Points)
  [True, 30, 10, 5] Sum is: 36
      [True, 30, 5, 10] Sum is: 35
      TypeError: unsupported operand type(s) for +: 'int' and 'str'
  [True, 30, 5, 10] Sum is: 36
8.x = 200
  print(isinstance(x, int))
   * (2 Points)
  true
      false
      200
  none of thse
9. Write the output of the following code.
  a = True
  b = False
  c = False
  if a or b and c:
     print ("Data Science")
  else:
     print ("Python") * (2 Points)
    Data Science
```

10. What is called when a function is defined inside a class?

* (1 Point)	
Module	
Method	
another function	
class	
11. Write the output of the following code.  count = 2	
def solveThis():	
global count	
for i in (1, 2, 3): count += 1	
solveThis()	
print (count) * (3 Points)	
5	

```
12. print(10 > 9)
   print(10 == 9)
   print(10 < 9)
   * (2 Points)
   True False False
       False False False
       True True True
   none of these
13. value = [1, 2, 3, 4]
   data = 0
   try:
      data = value[4]
   except IndexError:
     print('PDA', end = '')
   except:
      print('Data Science ', end = '') * (2 Points)
   Data Science
   PDA
       PDA Data Science
       Compilation error
   Option 2
```

14. Write the output of the following code.

```
r = lambda q: q * 4
s = lambda q: q * 3
x = 3
x = r(x)
x = s(x)
x = r(x)
print (x) * (3 Points)
```

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```
15.D = dict()
   for i in range (3):
      for j in range(2):
         D[i] = j
   print(D) * (2 Points)
```

- {0: 0, 1: 0, 2: 0}
- (0: 1, 1: 1, 2: 1)
- {0: 0, 1: 0, 2: 0, 0: 1, 1: 1, 2: 1}
- TypeError: Immutable object
- Option 2

## 16. NumPy package is used to do fast operations on arrays. \* (1 Point)

- True
- False

```
17. Write the output of the following code.
   a = True
   b = False
   c = False
   if not a or b:
      print (1)
   elif not a or not b and c:
      print (2)
   elif not a or b or not b and a:
      print (3)
   else:
      print (4) * (2 Points)
     3
```

```
18.x = 123
   for i in x:
      print(i) * (2 Points)
```

Error (Integer is not iterable)

19. x = "awesome"
<pre>def myfunc():   x = "fantastic"   print("Python is " + x)</pre>
myfunc()
print("Python is " + x)
a. Python is fantastic Python is awesome b. Python is awesome Python is awesome c.Python is fantastic Pytho is fantastic d.none of these
* (2 Points)
a
○ b
c
d
20. Which of the following chart is not valid * (2 Points)
curve
bar
pie
All of the above

21.	Dict = {1 : 1, 2 : '2', '1' : 2, '2' : 3} Dict['1'] = 2 print(Dict[Dict[Dict[str(Dict[1])]]) * (2 Points)
	3
	<u> </u>
	_ 2

none of these

22. Write the output of the following code.

```
data = [1, 2, 3]
temp1 = [[x for x in[data]] for x in range(2)]
print (temp1)
* (3 Points)
```

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

23. Write the output of the following code.

```
r = lambda q: q * 4
s = lambda q: q * 3
x = 3
x = r(x)
x = s(x)
x = r(x)
print (x) * (3 Points)
```

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```
y = 9
z = lambda x : x * y
print (z(6)) * (3 Points)
```

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25. Write the output of the following code.

```
a = 6.5
b = 3
print (a//b) * (2 Points)
```

2.0

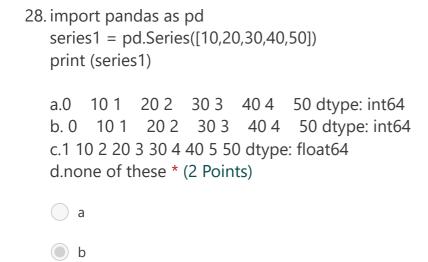
26. Question: Write the output of the following code.

```
L1 = []
L1.append([1, [2, 3], 4])
L1.extend([4, 5, 6])
print(L1[0][1][1] + L1[2])
```

\* (3 Points)

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- 27. A data frame can be considered as dictionary of list/series \* (2 Points)
  - true
  - false



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