# Rajalakshmi Engineering College

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## NeoColab_REC_CS23221_Python Programming

## REC_Python_Week 7_MCQ

Attempt : 1
Total Mark : 20
Marks Obtained : 19

## Section 1 : MCQ

1. What is the output of the following code?

```
import numpy as np
a = np.arange(10)
print(a[2:5])
```

*Answer*

[2, 3, 4]

*Status :* Correct                                                      *Marks : 1/1*


2. Minimum number of argument we require to pass in pandas series ?

*Answer*

0

*Status :* Wrong                                                    *Marks : 0/1*

3. Which of the following is a valid way to import NumPy in Python?

*Answer*

import numpy as np

*Status :* Correct                                                *Marks : 1/1*

4. Which NumPy function is used to calculate the standard deviation of an array?

*Answer*

numpy.std()

*Status :* Correct                                                *Marks : 1/1*

5. What is the purpose of the following NumPy code snippet?

```
import numpy as np
arr = np.zeros((3, 4))
print(arr)
```

*Answer*

Displays a 3x4 matrix filled with zeros

*Status :* Correct                                                *Marks : 1/1*

6. What will be the output of the following code snippet?

```
import numpy as np
arr = np.array([1, 2, 3])
result = np.concatenate((arr, arr))
print(result)
```

*Answer*

[1 2 3 1 2 3]

*Status :* Correct                                                   *Marks : 1/1*

7.  What does NumPy stand for?

*Answer*

Numerical Python

*Status :* Correct                                                   *Marks : 1/1*

8.  What is the result of the following NumPy operation?

```
import numpy as np
arr = np.array([1, 2, 3])
r = arr + 5
print(r)
```

*Answer*

[6 7 8]

*Status :* Correct                                                   *Marks : 1/1*

9.  What is the primary data structure used in NumPy for numerical computations?

*Answer*

Array

*Status :* Correct                                                   *Marks : 1/1*

10.  What is the output of the following NumPy code?

```
import numpy as np
arr = np.array([1, 2, 3, 4, 5])
r = arr[2:4]
print(r)
```

*Answer*

[3 4]

*Status :* Correct                                                                  *Marks : 1/1*

11.  Which function is used to create a Pandas DataFrame?

*Answer*

pd.DataFrame()

*Status :* Correct                                                                  *Marks : 1/1*

12.   The important data structure of pandas is/are ____.

*Answer*

Both Series and Data Frame

*Status :* Correct                                                                  *Marks : 1/1*

13.  What is the output of the following NumPy code snippet?

```
import numpy as np
arr = np.array([1, 2, 3, 4, 5])
r = arr[arr > 2]
print(r)
```

*Answer*

[3 4 5]

*Status :* Correct                                                                  *Marks : 1/1*

14.  In NumPy, how do you access the first element of a one-dimensional array arr?

*Answer*

arr[0]

*Status :* Correct                                                                  *Marks : 1/1*

15. Which NumPy function is used to find the indices of the maximum and minimum values in an array?

*Answer*

argmax() and argmin()

*Status :* Correct                                                          *Marks : 1/1*

16. In the DataFrame created in the code, what is the index for the row containing the data for 'Jack'?

import pandas as pd

data = {'Name': ['Tom', 'Jack', 'nick', 'juli'],
    'marks': [99, 98, 95, 90]}

df = pd.DataFrame(data, index=['rank1',
        'rank2',
        'rank3',
        'rank4'])
print(df)

*Answer*

rank2

*Status :* Correct                                                          *Marks : 1/1*

17. What will be the output of the following code?

import pandas as pnd
pnd.Series([1,2], index= ['a','b','c'])

*Answer*

Value Error

*Status :* Correct                                                          *Marks : 1/1*

18. Which NumPy function is used to create an identity matrix?

*Answer*

numpy.identity()

*Status :* Correct                                      *Marks : 1/1*


19.  What is the primary purpose of Pandas DataFrame?

*Answer*

To store data in tabular form for analysis and manipulation

*Status :* Correct                                      *Marks : 1/1*


20.  What does the np.arange(10) function in NumPy do?

*Answer*

Creates an array with values from 1 to 9

*Status :* Correct                                      *Marks : 1/1*