Rajalakshmi Engineering College

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NeoColab_REC_CS23221_Python Programming

REC_Python_Week 7_MCQ

Attempt : 1
Total Mark : 20
Marks Obtained : 16

Section 1 : MCQ

1. 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*

2. What is the primary purpose of Pandas DataFrame?

Answer

To store data in tabular form for analysis and manipulation

Status : Correct   *Marks : 1/1*

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

Answer

pd.DataFrame()

Status : Correct   *Marks : 1/1*

4.   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*

5.   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*

6. 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

[1 2 3 5]

Status : Wrong   *Marks : 0/1*

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

Answer

numpy.identity()

Status : Correct   *Marks : 1/1*

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

Answer

import numpy as np

Status : Correct   *Marks : 1/1*

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

Answer

Both Series and Data Frame

Status : Correct   *Marks : 1/1*

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

Answer

argmax() and argmin()

11. What is the output of the following code?

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

Answer

[2, 3, 4]

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

Answer

numpy.std()

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

Answer

Creates an array with values from 0 to 10

14. 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

[2 3]

Status : Wrong   *Marks : 0/1*

15.   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*

16.   What does NumPy stand for?

Answer

Numerical Python

Status : Correct   *Marks : 1/1*

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

Answer
0

Status : Wrong   *Marks : 0/1*

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

Answer

arr[0]

Status : Correct   *Marks : 1/1*

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

Answer

Array

Status : Correct   *Marks : 1/1*

20. 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*