

# Rajalakshmi Engineering College

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## NeoColab\_REC\_CS23221\_Python Programming

### REC\_Python\_Week 7\_MCQ

Attempt : 1  
Total Mark : 20  
Marks Obtained : 20

#### Section 1 : MCQ

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

Answer

pd.DataFrame()

Status : Correct

Marks : 1/1

2. 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

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

Answer

arr[0]

Status : Correct

Marks : 1/1

4. 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

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

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

Answer

Value Error

Status : Correct

Marks : 1/1

6. 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

7. 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

8. 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

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

Answer

numpy.std()

Status : Correct

Marks : 1/1

10. 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

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

Answer

1

Status : Correct

Marks : 1/1

12. What does NumPy stand for?

Answer

Numerical Python

Status : Correct

Marks : 1/1

13. What is the primary purpose of Pandas DataFrame?

Answer

To store data in tabular form for analysis and manipulation

Status : Correct

Marks : 1/1

14. The important data structure of pandas is/are \_\_\_\_.

Answer

Both Series and Data Frame

Status : Correct

Marks : 1/1

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

Answer

```
numpy.identity()
```

Status : **Correct**

Marks : 1/1

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

Answer

Array

Status : **Correct**

Marks : 1/1

17. 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

18. 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

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

Answer

```
import numpy as np
```

Status : Correct

Marks : 1/1

20. 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