

# 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 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

2. 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**

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

**Answer**

Array

**Status : Correct**

**Marks : 1/1**

4. 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**

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

**Answer**

arr[0]

**Status :** Correct

**Marks :** 1/1

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

**Answer**

pd.DataFrame()

**Status :** Correct

**Marks :** 1/1

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

**Answer**

numpy.std()

**Status :** Correct

**Marks :** 1/1

8. 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

9. 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

10. 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

11. 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

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

**Answer**

numpy.eye()

**Status :** Wrong

**Marks :** 0/1

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

**Answer**

```
import numpy as np
```

**Status :** Correct

**Marks :** 1/1

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

**Answer**

1

**Status :** Correct

**Marks :** 1/1

15. What does NumPy stand for?

**Answer**

Numerical Python

**Status :** Correct

**Marks :** 1/1

16. What is the primary purpose of Pandas DataFrame?

**Answer**

To store data in tabular form for analysis and manipulation

**Status :** Correct

**Marks :** 1/1

17. 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

18. 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

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

**Answer**

Both Series and Data Frame

**Status :** Correct

**Marks :** 1/1

20. 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