Rajalakshmi Engineering College

Name: Gowtham Mn

Email: 241501059@rajalakshmi.edu.in

Roll no: 241501059 Phone: 8778441691

Branch: REC

Department: I AIML AD

Batch: 2028

Degree: B.E - AI & ML



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 primary data structure used in NumPy for numerical computations?

Answer

Array

Status: Correct Marks: 1/1

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

Answer

import numpy as np

Status: Correct Marks: 1/1

24	3. Which NumPy fu an array? Answer numpy.std() Status: Correct	nction is used to calcula	ite the standard devi	Marks: 1/1
	4. In NumPy, how do you access the first element of a one-dimensional array arr?			
24	Answer arr[0] Status: Correct	24,150,1059	24,150,1059	Marks : 1/1
	5. What is the primary purpose of Pandas DataFrame?			
	Answer To store data in tabula Status: Correct	ar form for analysis and m	anipulation	Marks : 1/1
241	6. Which function is Answer pd.DataFrame()	s used to create a Panda	s DataFrame?	241501059
	Status: Correct			Marks : 1/1
	7. Which NumPy function is used to create an identity matrix?			
	Answer numpy.eye()			^
241	Status : Wrong	24,150,1059	24,150,1059	Marks : 0/1

8. What does NumPy stand for?

Answer

Numerical Python

Status: Correct Marks: 1/1

24,150,1059

9. 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

10. 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

11. 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: 17

12. 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

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

import pandas as pd

Status: Correct Marks: 1/1

14. 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

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

Answer

1

Status: Correct Marks: 1/1

16. 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

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

The important data structure of pandas is/are ____.

Answer

Both Series and Data Frame

Status: Correct Marks: 1/1

19. 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

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

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