

Python

Test 6

Name:

Time: 45 | MM: 30

1. Numpy arrays can be

(a) indexed

(b) sliced

(c) iterated

(d) All of these

2.
import numpy as np
a=np.array([2,4,1])
b=a.copy()
a[1]=3
print(b)

(a) [2 4 1]

(b) [2 3 1]

(c) [3 4 1]

(d) [2 4 3]

3.
import numpy as np
a=np.array([2,4,1])
b=np.array([3,5])
c=a+b
print(c)

(a) [2 4 1 3 5]

(b) [5 9 1]

(c) 15

(d) Error

4.
import numpy as np
a=np.array([2,4])
b=np.array([3,5])
c=a*b
print(c)

(a) [2 4 3 5]

(b) [6 20]

(c) [6 12 10 20]

(d) [26]

5.
import numpy as np
a = np.arange(1,3,.5)
print(a)

(a) [1 2 3]

(b) [1. 1.5 2. 2.5]

(c) [1. 1.5 2. 2.5 3]

(d) [1 1.5 2 2.5 3]

6.
import numpy as np
a = np.arange(1,5,2)
print(a)

(a) [135]

(b) [13]

(c) [1,3]

(d) [1,2,3,4,5]

7.
import numpy as np a = np.arange(5,1) print(a)

(a) []

(b) [12345]

(c) [54321]

(d) [1234]

8.
import numpy as np
a = np.array([1, 5, 4, 7, 8])
a = a + 1
print(a[1])

(a) 4

(b) 5

(c) 6

(d) 7

9.
import numpy as np
a = np.array([2, 3, 4, 5])
b = np.arange(4)
print(a+b)

(a) [2 3 4 5]

(b) [3 4 5 6]

(c) [1 2 3 4]

(d) [2 4 6 8]

10.
import numpy as np
a = np.array([1,2,3,5,8])
b = np.array ([0,1,5,4,2])
c = a + b
c = c*a
print (c[2])

(a) 6

(b) 24

(c) 0

(d) 20

11.
import numpy as np
y = np.array([[11, 12, 13, 14], [32, 33, 34, 35]])
print(y.ndim)

(a) 1

(b) 2

(c) 3

(d) 0

12. Using ndim we can find

- (a) dimension of the array (b) Size of array (c) Operational activities on Matrix (d) None of the mentioned above

13. The most important object defined in NumPy is an N- dimensional array type called?

- (a) ndarray (b) ndarray (c) nd.array (d) None of these

14. Which of the following arrays is a two dimensional (2- D) array?

- (a) 89 (b) [1,2,3,4] (c) [1,2,3], [3,4,5], [1,3,4] (d) [[235][456][456]]

15. What is a correct syntax to check the number of dimensions in an array?

- (a) np.ndim(array_name) (b) array_name.ndim() (c) np.dim(array_name) (d) array_name.dim

16. What is a correct syntax to print the numbers [3, 4, 5] from the array below:

arr = np.array ([1,2,3,4,5,6,7])

- (a) print(arr[2:4]) (b) print(arr[2:5]) (c) print(arr[2:6]) (d) print(arr[3:6])

17. In NumPy, what does the SHAPE of an array mean?

- (a) the shape is the number of rows (b) the shape is the number of columns (c) the shape is the number of element in each dimension (d) Total number of elements in array

18. Regarding creating ndarray, choose the build in functions in numpy.

- (a) np.array() (b) np.zeros() (c) np.empty() (d) All of the above

19. What are the attributes of numpy array?

- (a) shape, dtype, ndim (b) objects, type, list (c) objects, non vectorization (d) Unicode and shape

20. What is zeros() function in numpy use to?

- (a) make a matrix with all elements 0 (b) make a matrix with first column 0 (c) make a matrix with diagonal elements 0 (d) All of the above

21. How to import numpy module?

- (a) from numpy import * (b) import numpy (c) import numpy as my_numpy (d) All of above

22. What does size attribute in numpy use to find?

- (a) Number of Rows and Column in array (b) Size of each items in array (c) Number of elements in array (d) Largest element of an array

23. NumPY stands for?

- (a) Numbering python (b) Number in python (c) Numerical python (d) Number for python

24. Numpy developed by?

- (a) Guido van rossum (b) Travis olliphant (c) Tim Berner lee (d) W3Schools

25. What is a correct method to join two or more arrays?

- (a) np.concatenate() (b) np.join() (c) np.array_join() (d) np.join_array()

26. What is the purpose of the np.array() function in NumPy?

- (a) It creates a new Python list. (b) It creates a NumPy array. (c) It performs element-wise addition. (d) It calculates the mean of an array.

27. Numpy array's dimension are known as

- (a) axis (b) degree (c) coordinates (d) points

28. What is the primary purpose of NumPy in Python?

- (a) Web development (b) Machine learning and Scientific computing (c) Game development (d) Database management

29. NumPy arrays used over lists because

- (a) NumPy arrays have contiguous memory location (b) They are more speedy to work with (c) They are more convenient to deal with (d) All of the above

30. empty() function used to create a NumPy array which contained the values

- (a) Filled with Zero (b) Filled with Blank space (c) Filled with random garbage value (d) Filled with One