Live Test

Q1.NumPy stands for \_\_\_\_

1. Number Python
2. Numerical Python
3. Numbers in Python
4. None of the above

Ans:b

Q2. NumPy arrays can be \_\_\_.

1. Indexed
2. Sliced
3. Iterated
4. All of the mentioned above

Answer: D) All of the mentioned above

Q3. What is the output of the following numpy code snippet?

import numpy as np

x = np.array([[0, 1],[2, 3]])

np.transpose(x)

A) array([[0, 1],

[2, 3]])

B) array([[0, 2],

[1, 3]])

C) array([[2, 3],

[0, 1]])

1. None of the above

Answer: B

Q4. What is the output of the following numpy code snippet?

import numpy as np

a = np.array([[ 0, 1, 2, 3],

[ 4, 5, 6, 7],

[ 8, 9, 10, 11]])

b = a

b is a

1. True
2. False

Answer A) True

Q5. Using ndim we can find -

1. We can find shape of matrix
2. Size of array
3. We can find the dimension of the array
4. None of the mentioned above

Answer: C) We can find the dimension of the array

Q6. How can you perform element-wise multiplication of two NumPy arrays between a and b?

1. a \* b
2. np.multi(a, b)
3. np.cross(a, b)
4. a.dot(b)

Answer: A

Q7. What is the shape of a 1D NumPy array with 5 elements?

1. (1, 5)
2. (5,)
3. (5, 1)
4. (1,)

Answer: B

Q8. How can you access the element at the second row and third column of a 2D NumPy array arr?

1. arr[1, 2]
2. arr[2, 3]
3. arr[1][2]
4. arr[2][3]

Answer: A

Q9. How can you find the mean of a NumPy array arr?

1. arr.mean(np)
2. np.mean(arr)
3. mean(arr)
4. arr.average()

Answer: B)

Q10. How can you find the indices of the maximum value in a NumPy array arr?

1. max\_index = np.find\_max\_index(arr)
2. max\_index = arr.max\_index()
3. max\_index = np.maxarg(arr)
4. max\_index = np.argmax(arr)

Answer: D)

Q11. Find the output of the below code.

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

print(a.ndim)

A) 1

B) (1,3)

C) 3

D) (3,1)

Answer: C

Q12. What does the function itemsize() return?

1. It returns the size of the array
2. It returns the number of elements in the array
3. It returns the byte size of each element of the array
4. None of the above

Answer C

Q13. Find the output of the below code.

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

a[3,2]

A) 6

B) 5

C) 4

D) Error

Answer: D

Q14. Which of the following code gives an error?

A) a = np.array([(1,2,3),(4,5,6)])

a[(0,1)]

B) a = np.array([(1,2,3),(4,5,6)])

a.reshape(2,4)

C) a = np.array([(1,2,3),(4,5,6)])

a[np.arange(2), :]

D) All the above

Answer: B