Question: 1 of 30

Find the correct statement in the following options:

( You can select more than one option )

1. The use of size attribute in numpy is to find the direction and shape.

Numpy main object is the homogeneous multidimensional array.

In numpy, dimensions are called axes.

The zeros function in numpy makes a matrix with first row 0.

Numpy array class is called ndarray.

What will the output of the following code?

import numpy as np a=np.array([[0, 1, 2], [3, 4, 5], [6, 7, 8]]) b=np.array([[ 0, 2, 4], [ 6, 8, 10], [12, 14, 16]]) print(np.concatenate((a, b), axis=1))

[[ 0 2 4 0 1 2] 1. [ 6 8 10 3 4 5] [12 14 16 6 7 8]]

> [[ 0 1 2 0 2 4] [ 3 4 5 6 8 10] [ 6 7 8 12 14 16]]

[[ 0 1 2] [ 3 4 5] [ 6 7 8] [ 0 2 4] [ 6 8 10] [ 12 14 16]]

# **Quiz: AIC Quiz 4 Numpy**

Question: 3 of 30

How we can change the shape of numpy array?

- None of the mention options
- 2. reshape()
  - 3. shape()
  - 4. ord()
  - 5. change()

## Quiz : AIC Quiz 4 Numpy

Question: 4 of 30

Which of the following is the essential argument to pass in full() function of Numpy array

- 1. shape
- C 2. None of the option
- O 3. Both shape and value
- 4. value

Question: 5 of 30

What will the output of the following code?

import numpy as np arr = np.array([67.98, -10.25, -22.06, 0.5, 12.90, 10.10]) print(arr.astype(np.int32))

- O 1. None of the options
- 2. [67-10-2201210]
  - O 3. [67 0 12 10]
  - 0 4. [67 -10.3 -22.1 0 13 11]

Question: 6 of 30

What will be the output of the following code?

import numpy as np a=np.array([0, 1]) b=np.array([0, 2]) print(np.column\_stack((a,b)))

O 1. [[1 0] [0 2]]

2. [[0 0] [1 2]]

> O 3. [[2 0] [0 1]]

O 4. [[0 1] [0 2]] Question: 7 of 30

Which of the following is not valid to import the numpy module?

- 1. None of the options
- 2. import numpy as np
- 3. import numpy as p
- 4. import numpy as n

The resulting output of the code will be a NumPy array with the following values:

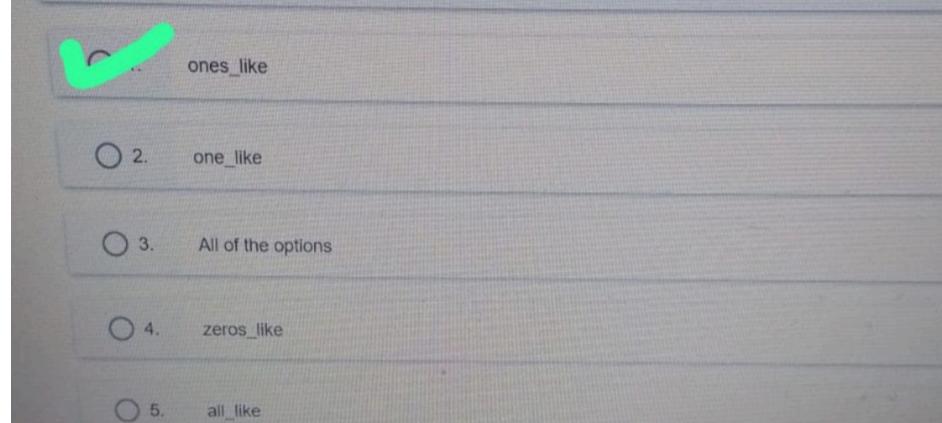
```
lua
                         Copy code
array([[[ 0, 0],
        [ 1, 2],
        [2, 4],
        [45, 47]],
       [[ 3, 6],
        [4,8],
        [5, 10],
        [7, 9]],
       [[ 6, 12],
        [7, 14],
        [ 8, 16],
        [8, 7]]])
```

Note that the original `a` and `b` arrays are combined in a column-wise fashion

# Quiz : AIC Quiz 4 Numpy auestion: 9 of 30 Which of the following attribute should be used while checking for type combination input and output ? All of the options O 2. .type O 3. .class .types None of the options.

## uestion: 10 of 30

Which of the following returns an array of ones with the same shape and type as a given array?



#### Question: 11 of 30

function returns its argument with a modified shape, whereas the \_\_\_\_\_method modifies the array itself. The All of the mention options reshape2 , resize reshape, resize resize , reshape





## **Explanation:**

The `numpy.concatenate()` function is used to concatenate arrays along a specified axis. In this case, the `np.concatenate((b, a), axis=0)` code concatenates arrays `b` and `a` along axis 0, which means the arrays are

estion: 13 of 30

Which of the following argument we need to pass in reshape() function?

(You can select more than one option)

1. shape

2. array

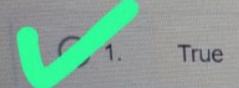
3. metrics

4. size

iz : AIC Quiz 4 Numpy

estion: 14 of 30

ndarray is the buffer containing the actual elements of the array.



2. False

Question: 15 of 30

What will be the output of the following code?

import numpy as np print(np.arange(9,-1,-1))

- [9876543210]
  - 0 2. [987654321]
  - 3. [975420]
  - 0 4. [97542]

## Output:

array([[0, 1, 2, 3, 4], [5, 6, 7, 8, 9], [1, 1, 1, 1, 1], [1, 1, 1, 1, 1])

#### Code

A) a = np.arange(10).reshape(2,-1) b = np.repeat(1, 10).reshape(2,-1) print(np.concatenate([a, b], axis=0))

B) a = np.arange(10).reshape(2,-1) b = np.repeat(1, 10).reshape(2,-1) print(np.vstack([a, b]))

C) a = np.arange(10).reshape(2,-1) b = np.repeat(1, 10).reshape(2,-1) print(np.r\_[a, b])

1.

B and C

- 2. A and C
- 3. A and B
- 4. A, B and C

Question: 17 of 30

What will be the output of the following code?

import numpy as np a = np.array([[10, 20, 30], [40, 50, 60], [70, 80, 90]]) print(np.hsplit(a, 3))

- [array([[10], [20], [30]]), array([[40], [50], [60]]), array([[70], [80], [90]])]
  - [array([[90], [80], [70]]), array([[60], [50], [40]]), array([[30], [20], [10]])]
- [array([[10], [40], [70]]), array([[20], [50], [80]]), array([[30], [60], [90]])]
  - (array([[90], [60], [30]]), array([[80], [50], [20]]), array([[70], [40], [10]])]

uestion: 18 of 30

Numpy.array(list), what it does?

- 1. It convert array to array
- 2. It convert list to array
  - 3. Error
  - O 4. It convert array to list

estion: 19 of 30

Which is the correct syntax of the reshape() function in numpy, select all that apply?

(You can select more than one option)

1. np.reshape(array,shape)

array.reshape(shape)

3. np.reshape(array,shape)

4. np.reshape(shape,array)

Question: 21 of 30

The numpy(Numeric Python) package helps us manipulate large \_\_\_\_\_ of numeric data.

- ) 1. string
- O 2. dictionary
- O 3. list
- 4. array





The code will output a new 2D NumPy array which is the result of vertically stacking the two input arrays `a` and `b`.

The output of the code will be:

```
Copy code

[[ 0 1 2]
  [ 3 4 5]
  [ 6 7 8]
  [ 0 2 4]
  [ 6 8 10]
  [12 14 16]]
```

Question: 23 of 30

What will the output of the following code?

import numpy as np arr = np.array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9]) arr[arr % 2 == 1] = -1 print(arr)

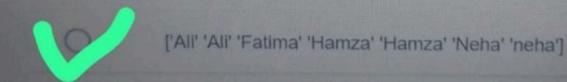
- 1. [0-1-2-3-4-5-6-7-8-9]
- 2. [0-12-14-16-18-1]
  - 3. [012-14-16-18-1]
  - 04. [01-13-15-17-19]

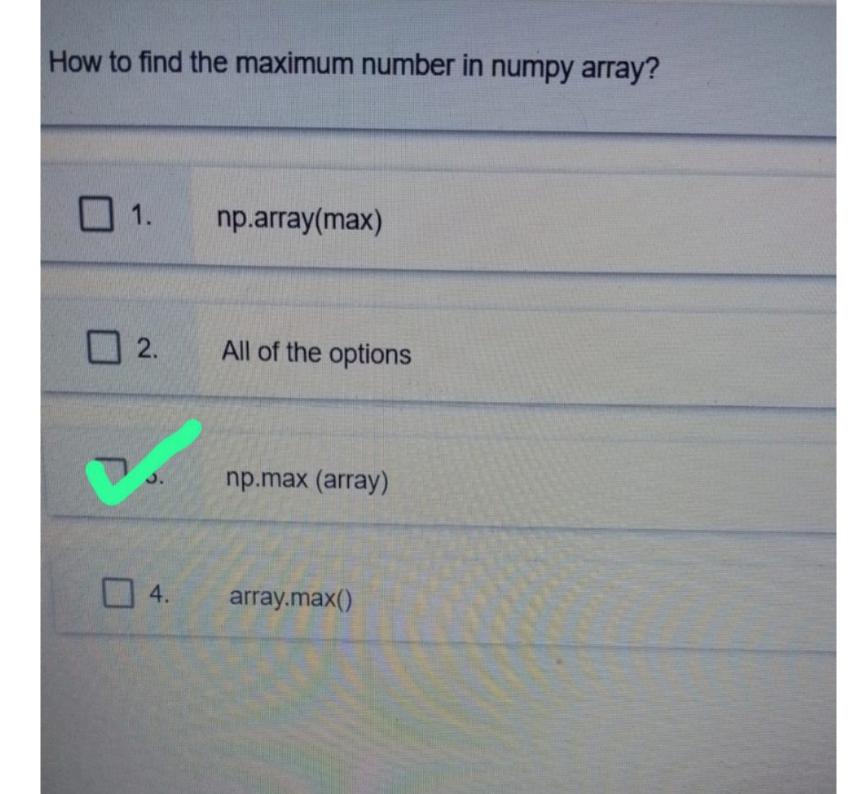
on: 24 of 30

What will be output of the following code:

import numpy as np
names = np.array(['Ali', 'Neha', 'Ali', 'Hamza', 'neha', 'Fatima', 'Hamza'])
print(np.unique(names))

- 1. ['Ali' 'Fatima' 'Hamza' 'Neha']
  - 2. ['Ali' 'Fatima' 'Hamza' 'Neha' 'neha']
  - 3. ['neha' 'Ali' 'Fatima' 'Hamza' 'Neha']





uestion: 26 of 30

Is it is possible to convert the numpy array to list in python?

- ) 1. Depend on the numpy array
- 2. None of the options
- O 3. No
- 4. Yes
  - 5. Sometimes

Quiz : AIC Quiz 4 Numpy

luestion: 27 of 30

What will be output of the following code?

import numpy as np arr=[ 0.3490, -1.4545, 1.204 , -9.7152, 11.43 , -0.8439] arr.sort() print(arr)

- 1. [-0.8439 , -1.4545 , -9.7152 , 0.349 , 1.204 , 11.43]
- O 2. [11.43 , 1.204 , 0.349 , -9.7152 , -1.4545 , -0.8439]
- 3. [-9.7152 , -1.4545 , -0.8439 , 0.349 , 1.204 , 11.43]
  - 4. Error: 'list' object has no attribute 'sort'

Question: 28 of 30

What will be the output of the following code?

import numpy as np arr = np.array([ 0, 1, 2, 3, 4, 5, 6, 7, 8, 9]) arr = np.arange(10) print(arr.reshape(2, -1))

- O 1. [[0, 2, 5, 7, 9], [1, 3, 4, 6, 8]]
- [[0, 1, 2, 3, 4], [5, 6, 7, 8, 9]]
  - 3.
     [[5, 3, 2, 1, 0],

     [9, 8, 7, 6, 5]]
  - 4.
     [[9, 8, 7, 6, 5], [4, 3, 2, 1, 0]]