**QUIZ**

1. **Which of the following is true?**
2. Vectors are 2 dimensional and matrices are 2 dimensional
3. Vectors are 1 dimensional and matrices are 2 dimensional
4. Vectors are 2 dimensional and matrices are 1 dimensional
5. None of the above

**Answer: b**

1. **Which of the following is correct in order to convert the list into array?**
2. np.array(football)
3. np.array[football]
4. np.array{football}
5. np.array[‘football’]

**Answer: a**

1. **What is the output of the following code?**

**list\_l =[[12,34,55,],[66,45,77],[45,77,88]]**

**np.array(list\_l)**

1. array([[12, 34, 55],

             [66, 45, 77],

             [45, 77, 88]])

1. array[[12, 34, 55],

            [66, 45, 77],

            [45, 77, 88]]

1. array([12, 34, 55],

            [66, 45, 77],

            [45, 77, 88])

1. array([[12, 34, 55]

             [66, 45, 77]

             [45, 77, 88]])

**Answer: a**

1. **What is the output of the following code?**

**np.arange(0,22,6)**

1. array([0, 6, 12, 18])
2. array([0, 1, 2, 3, 4, 5])
3. array([0, 6, 12])
4. array(0, 6, 12, 18, 22)

**Answer: a**

1. **What will be the output of this below code?**

**test\_array = [10, 11.5, 12, 13.5, 14,15]**

**test\_array[2:3]**

1. [11.5, 12]
2. [12, 13.5]
3. [13.5]
4. [12]

**Answer: d**

1. **Which of the following will be the output of the below code?**

**demo\_array = np.arange(10,21)**

**subset\_demo\_array = demo\_array[0:7]**

**subset\_demo\_array[:]= 101**

**subset\_demo\_array**

1. array = ([101, 101, 101, 101, 101, 101, 101])
2. array = ([101])
3. array = (101)
4. array = [(101, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)]

**Answer: a**

1. **Guess the output of this matrix?**

**demo\_matrix = np.array(([13,35,74,48], [23,37,37,38],[73,39,93,39]))**

**demo\_matrix[2,3]**

1. 37
2. 38
3. 39
4. 93

**Answer: c**

1. **For the given matrix below, find the output**

**demo\_matrix = np.array(([13,35,74,48], [23,37,37,38],[73,39,93,39]))**

**demo\_matrix[:, (1,2)]**

1. array([[13, 35],

            [23, 37],

            [73, 39]])

1. array([[13, 23],
2. array([[23, 73],
3. array([[35, 74],

            [37, 37],

            [39, 93]])

**Answer: d**

1. **For the given array demo\_array=np.arange(0,10) ,select the correct choice for different selections respectively**

**demo\_array**

**demo\_array <3**

**demo\_array[demo\_array <6]**

**np.max(demo\_array)**

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

array([True, True, True, False, False, False, False, False, False, False ])

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

9

1. array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10])

array([True, True, True, False, False, False, False, False, False, False ])

array([0, 1, 2, 3, 4, 5])

10

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

array([True, True, True, True, False, False, False, False, False, False ])

array([0, 1, 2, 3, 4])

9

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

array([True, True, True, False, False, False, False, False, False, False ])

array([0, 1, 2, 3, 4, 5])

9

**Answer: d**

1. **What gets printed?**

**import numpy as np**

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

**b = np.arange(0,10,2)**

**c = a + b**

**print (c[4])**

1. 4
2. 5
3. 13
4. 15

**Answer:c**