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**Time taken** 19 mins 33 secs

**Grade** 29.00 out of 30.00 (97%)

### Question 1

Correct

Mark 1.00 out of 1.00

NumPy stands for \_\_\_\_

- ☐ a. Number Python
- ☒ b. Numerical Python
- ☐ c. Numbers in Python
- ☐ d. None of the above



Your answer is correct.

The correct answer is:  
Numerical Python

### Question 2

Correct

Mark 1.00 out of 1.00

Which of the following libraries allows to manipulate, transform and visualize data easily and efficiently.

- ☐ a. Pandas
- ☐ b. NumPy
- ☐ c. Matplotlib
- ☒ d. All of the mentioned



Your answer is correct.

The correct answer is:  
All of the mentioned

**Question 3**

Correct

Mark 1.00 out of 1.00

PANDAS stands for \_\_\_\_\_

- ☒ a. Panel Data Analysis
- ☐ b. Panel Data analyst
- ☐ c. Panel Data
- ☐ d. Panel Dashboard



Your answer is correct.

The correct answers are: Panel Data Analysis, Panel Data analyst

**Question 4**

Correct

Mark 1.00 out of 1.00

Important data structure of pandas is/are \_\_\_\_\_

- ☐ a. Series
- ☐ b. DataFrame
- ☒ c. Both of the above
- ☐ d. None of the above



Your answer is correct.

The correct answer is: Both of the above

**Question 5**

Correct

Mark 1.00 out of 1.00

Which of the following library in Python is used for plotting graphs and visualization.

- ☐ a. Pandas
- ☐ b. NumPy
- ☒ c. Matplotlib
- ☐ d. None of the above



Your answer is correct.

The correct answer is:  
Matplotlib

**Question 6**

Correct

Mark 1.00 out of 1.00

\_\_\_\_\_ is used when data is in Tabular Format.

- ☐ a. NumPy
- ☒ b. Pandas
- ☐ c. Matplotlib
- ☐ d. All of the above



Your answer is correct.

The correct answer is:

Pandas

**Question 7**

Correct

Mark 1.00 out of 1.00

Which of the following command is used to install pandas?

- ☐ a. install pandas
- ☐ b. pip pandas
- ☐ c. None of the above
- ☒ d. pip install pandas



Your answer is correct.

The correct answer is:

pip install pandas

**Question 8**

Correct

Mark 1.00 out of 1.00

Which of the following statement is wrong?

- ☐ a. We can create Series from Dictionary in Python.
- ☐ b. Keys of dictionary become index of the series.
- ☐ c. Order of indexes created from Keys may not be in the same order as typed in dictionary.
- ☒ d. All are correct



Your answer is correct.

The correct answer is:

All are correct

**Question 9**

Correct

Mark 1.00 out of 1.00

A Series by default have numeric data labels starting from \_\_\_\_\_.

- ☐ a. 3
- ☐ b. 2
- ☐ c. 1
- ☒ d. 0



Your answer is correct.

The correct answer is:

0

**Question 10**

Correct

Mark 1.00 out of 1.00

The data label associated with a particular value of Series is called its \_\_\_\_\_.

- ☐ a. Data value
- ☒ b. Index
- ☐ c. Value
- ☐ d. None of the above



Your answer is correct.

The correct answer is:

Index

**Question 11**

Correct

Mark 1.00 out of 1.00

What will be output for the following code?

```
import pandas as pd
import numpy as np
s = pd.Series(np.random.randn(4))
print(s.ndim)
```

- ☐ a. 0
- ☒ b. 1
- ☐ c. 2
- ☐ d. 3



Your answer is correct.

The correct answer is:

1

**Question 12**

Correct

Mark 1.00 out of 1.00

What will be syntax for pandas dataframe?

- ☒ a. pandas.DataFrame( data, index, columns, dtype, copy)
- ☐ b. pandas\_DataFrame( data, index, columns, dtype, copy)
- ☐ c. pandas.DataFrame( data, index, rows, dtype, copy)
- ☐ d. pandas.DataFrame( data, index, dtype, copy



Your answer is correct.

The correct answer is: pandas.DataFrame( data, index, columns, dtype, copy)

**Question 13**

Correct

Mark 1.00 out of 1.00

Why ndim is used?

- ☐ a. Returns the Series as ndarray.
- ☐ b. Returns a list of the axis labels
- ☒ c. Returns the number of dimensions of the underlying data, by definition 1.
- ☐ d. Returns the number of elements in the underlying data.



Your answer is correct.

The correct answer is:

Returns the number of dimensions of the underlying data, by definition 1.

**Question 14**

Correct

Mark 1.00 out of 1.00

Which of the following is false?

- ☒ a. The integer format tracks only the locations and sizes of blocks of data.
- ☐ b. Two kinds of SparseIndex are implemented
- ☐ c. Pandas follow the NumPy convention of raising an error when you try to convert something to a bool.
- ☐ d. The integer format keeps an arrays of all of the locations where the data are not equal to the fill value



Your answer is correct.

The correct answer is:

The integer format tracks only the locations and sizes of blocks of data.

## Question 15

Correct

Mark 1.00 out of 1.00

Which of the following statements will create an empty series named "S1"?

- ☐ a. `S1 = pd.Series()`
- ☐ b. `S1 = pd.Series(None)`
- ☒ c. Both of the above
- ☐ d. None of the above



Your answer is correct.

The correct answer is:

Both of the above

## Question 16

Correct

Mark 1.00 out of 1.00

Point out the wrong statement.

- ☒ a. A DataFrame is like a fixed-size dict in that you can get and set values by index label
- ☐ b. Series can be passed into most NumPy methods expecting an ndarray
- ☐ c. A key difference between Series and ndarray is that operations between Series automatically align the data based on label
- ☐ d. None of the mentioned



Your answer is correct.

The correct answer is:

A DataFrame is like a fixed-size dict in that you can get and set values by index label

**Question 17**

Correct

Mark 1.00 out of 1.00

Which of the following Numpy operation are correct?

- ☐ a. Mathematical and logical operations on arrays.
- ☐ b. Fourier transforms and routines for shape manipulation
- ☐ c. Operations related to linear algebra.
- ☒ d. All of the above



Your answer is correct.

The correct answer is:

All of the above

**Question 18**

Correct

Mark 1.00 out of 1.00

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

- ☐ a. darray
- ☒ b. ndarray
- ☐ c. narray
- ☐ d. nd\_array



Your answer is correct.

The correct answer is:

ndarray




**Question 19**

Incorrect

Mark 0.00 out of 1.00

The basic ndarray is created using?

- ☐ a. `numpy.array(object, dtype = None, copy = True, order = None, ndmin = 0)`
- ☒ b. `numpy.array(object, dtype = None, copy = True, subok = False, ndmin = 0)` 
- ☐ c. `numpy.array(object, dtype = None, copy = True, order = None, subok = False, ndmin = 0)`
- ☐ d. `numpy_array(object, dtype = None, copy = True, order = None, subok = False, ndmin = 0)`

Your answer is incorrect.

The correct answer is:

`numpy.array(object, dtype = None, copy = True, order = None, subok = False, ndmin = 0)`


**Question 20**

Correct

Mark 1.00 out of 1.00

What will be output for the following code?

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

- ☐ a. [1]
- ☒ b. [1, 2, 3] 
- ☐ c. Error
- ☐ d. [[1, 2, 3]]

Your answer is correct.

The correct answer is:

[1, 2, 3]

**Question 21**

Correct

Mark 1.00 out of 1.00

Which of the following statement is false?

- ☐ a. NumPy main object is the homogeneous multidimensional array
- ☐ b. In Numpy, dimensions are called axes
- ☐ c. ndarray.dataitemSize is the buffer containing the actual elements of the array.
- ☒ d. ndarray is also known as the axis array.



Your answer is correct.

The correct answer is:

ndarray is also known as the axis array.

**Question 22**

Correct

Mark 1.00 out of 1.00

What will be output for the following code?

```
import numpy as np
dt = dt = np.dtype('i4')
print(dt)
```

- ☐ a. int64
- ☒ b. int32
- ☐ c. int16
- ☐ d. int128



Your answer is correct.

The correct answer is:

int32

**Question 23**

Correct

Mark 1.00 out of 1.00

If a dimension is given as \_\_\_\_ in a reshaping operation, the other dimensions are automatically calculated.

- ☐ a. Zero
- ☐ b. One
- ☒ c. Negative one
- ☐ d. Infinite



Your answer is correct.

The correct answer is:

Negative one

**Question 24**

Correct

Mark 1.00 out of 1.00

What will be output for the following code?

```
import numpy as np
dt = np.dtype([('age', np.int8)])
a = np.array([(10,),(20,),(30,)], dtype = dt)
print(a['age'])
```

- ☐ a. [[10 20 30]]
- ☒ b. [10 20 30]
- ☐ c. Error
- ☐ d. [10]



Your answer is correct.

The correct answer is: [10 20 30]

**Question 25**

Correct

Mark 1.00 out of 1.00

```
import numpy as np  
np.array(list)
```

Is it true to import numpy module like this?

- ☒ a. Yes, true
- ☐ b. Not, true
- ☐ c. Syntax Error
- ☐ d. All of the above



Your answer is correct.

The correct answer is: Yes, true

**Question 26**

Correct

Mark 1.00 out of 1.00

What are the attributes of numpy array?

- ☒ a. shape, dtype, ndim
- ☐ b. objects, type, list
- ☐ c. objects, non vectorization
- ☐ d. Unicode and shape



Your answer is correct.

The correct answer is:  
shape, dtype, ndim

**Question 27**

Correct

Mark 1.00 out of 1.00

How we can change the shape of the Numpy array in python?

- ☐ a. By Shape()
- ☒ b. By reshape()
- ☐ c. By ord()
- ☐ d. By change()



Your answer is correct.

The correct answer is:  
By reshape()

**Question 28**

Correct

Mark 1.00 out of 1.00

Which of the following is used to convert the list data type to the Numpy array ?

- ☐ a. array.list
- ☒ b. Numpy.array(list)
- ☐ c. array(list)
- ☐ d. None of the above



Your answer is correct.

The correct answer is:  
Numpy.array(list)

**Question 29**

Correct

Mark 1.00 out of 1.00

The complexity of Binary search algorithm is

- ☐ a.  $O(n)$
- ☒ b.  $O(\log n)$
- ☐ c.  $O(n^2)$
- ☐ d.  $O(n \log n)$



Your answer is correct.

The correct answer is:  
 $O(\log n)$

## Question 30

Correct

Mark 1.00 out of 1.00

If several elements are competing for the same bucket in the hash table, what is it called?

- ☐ a. Diffusion
- ☐ b. Replication
- ☒ c. Collision
- ☐ d. Duplication



Your answer is correct.

The correct answer is: Collision

◀ CAE-2 ( II Years & III Years All Programmes)

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