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Big Data and Analytics

## Free Data Science with Python Practice Test

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## Explanations

**50**

Questions

**28**

Correct Answers

**56**

% Correct Answers

1. The {\_\_\_\_} function returns its argument with a modified shape, whereas the \_\_\_\_ method modifies the array itself.

- ☒ reshape; resize
- ☐ resize; reshape
- ☐ reshape2; resize
- ☐ resize2; reshape2

Explanations:

The reshape function returns its argument with a modified shape, whereas the resize method modifies the array itself.

2. Which of the following functions helps create a new array object that looks at the same data?

- ☐ view
- ☒ copy
- ☐ paste
- ☐ duplicate

3. Which of the following statements limits both x and y axes to the interval [0, 6]?

☐ `plt.xlim(0, 6)`

☐ `plt.ylim(0, 6)`

☒ `plt.xlim(0, 6)`

`plt.axis([0, 6, 0, 6])` statement limits both x and y axes to the interval [0, 6].

☐ `plt.axis([0, 6, 0, 6])`

4. In NumPy, what does the shape (2,3,2) indicate?

☒ 2 rows, 3 columns, 2 ranks

☐ 2 rows, 3 ranks, 2 columns

☐ 2 rows, 3 columns, 2 elements

Shape (2,3,2) in NumPy array indicates 2 rows, 3 ranks, 2 columns.

☐ 2 rows, 3 elements, 2 ranks

5. What type of chart should we use if we have estimated a set of data and want to plot the

Explanations:

- ☐ Error bar plot is used to visualize the uncertainty of data. Whereas, 3D surface is for visualizing 3D functions.
- ☐ 3D surface
- 

☐ Contour plot

6. In statistics, a Type II error occurs when:

- ☒ Error bar plot

Explanations:

- ☐ a null hypothesis is rejected but should not be rejected.
- ☒ a null hypothesis is not rejected but should be rejected
- 

7. In BeautifulSoup, parent is used to:

- ☐ a test statistic is incorrect
- ☐ a hypothesis is chosen incorrectly

- ☐ Navigate down

- ☐ Navigate sideways
- 

- ☒ Navigate up

☐ Navigate back and forth

Explanations:

.new\_tag is the right method to create a new tag.

---

9. In BeautifulSoup, what are the options to search a web tree?

☐ .new\_tag()

☐ .add\_tag()

☒ .append\_tag()

☐ .create\_tag()

Explanations:

Find() and findall() are the searching tree options in BeautifulSoup.

Find() and findall() are the searching tree options in BeautifulSoup.

---

10. We need to define an index in Pandas.

☐ find()

☐ findall()

☐ search()

☐ searchall()

---

Explanations:

☐

TRUE

`loc()` and `iloc()` are the right methods to access elements in a Pandas Series.

☒

FALSE

`loc()` and `iloc()` are the right methods to access elements in a Pandas Series.

---

12. What will be the result in vector addition if labels are not found in a series?

☐

`loc()`

☐

`iloc()`

☐

`access()`

Explanations:

☐

`get()`

The missing labels will be marked as NaN (Not a Number).

---

☐

Will be marked as Zeros

☒

Will be skipped

☐

Will be marked as NaN

☐

Will throw an exception, index not found

☒ radians(x[, out])

Explanations:

☐ degree(x[, out])

Panel is not the commonly used data structure in Pandas. However, it is used to analyze 3-dimensional data.

☐ rad2deg(x[, out])

---

☐ convert(x[, out])

15. How can you view the first 10 records in a Pandas DataFrame?

☒ DataFrame

☐ Panel

☐ Series

☐ Panel 3D

☐ top(10)  
17. Who is a data scientist?

☐ get(10)

☒ head(10)

☐ first(10)

---

☐ Imports pandas directory

☒ Loads a csv file into a DataFrame

☐ Initiates a program in pandas

☐ Ends a program in pandas

☐ Mathematician

☐ Statistician

☐ Software programmer

☒ All of the above



☒ All of the above

Explanations:

The given command will generate a one-dimensional array of 6 numbers.

---

- ☐ split words, phrases, idioms
- ☒ map valid word root
- ☐ discover topics in a collection of documents
- ☐ determine where one word ends and other begins
- 

- ☐ [0 1 2 3 4 5]
- ☐ [0, 1 2, 3 4,5]
- ☒ [0 1 2 3 4 5]
- ☐ [0 1 2 3]

☐ train and test data set

☒ features

☐ responses

☐ labels

---

☐ `df.set_index('Date' = True)`

☐ `df.set_index('Date'= true, in place = True)`

☒ `df.set_index('Date', in place = True)`

☐ `df.set_index(in_place=True)`

☐ gets data from the NameNode

- ☐ gets both data and block location from the NameNode
  - ☐ gets the block location from the DataNode
  - ☐ gets only the block location from the NameNode
- 

- ☐ Scala
- ☐ Java
- ☐ Python
- ☐ Java and Python

- ☐ TRUE
- ☐ FALSE

☒ Google

☐ Microsoft

☐ Apple

☐ Samsung

☐ tag.clean()

☒ tag.clear()

☐ tag.replace()

☐ tag.remove()

☐ tag.attributes()

☐ tag.attrs

☒ tag.getAttr()

☐ tag.getAttributes()

☐ Python.org

☐ Crummy

☒ WinPython

☐ Scipy.org

☐ lxml

☐ html5lib

☒ Python's html.parser

☐ None of the above

- ☐ BeautifulSoup
- ☐ Parse only
- ☒ SoupStrainer
- ☐ None of the above

- ☐ Search Engine Optimization
- ☐ Web Scrapping
- ☐ Web Automation
- ☒ Web Indexing

- ☐ With update()
- ☐ With rename()
- ☒ Can't edit Navigable String

☐ with append()

☐ `html5lib`

☒ `lxml`

☐ Both A and B

☐ None of the above

☒ `lxml`

☐ `html5lib`

☐ Python's `html.parser`

☐ None of the above

- ☒ Converts a collection of text documents to a matrix of token counts
- ☐ Converts a collection of text documents to an array of token counts
- ☐ Transforms the newsgroup dataset into an array
- ☐ Invalid code

- ☐ save fig('Fig1.png')
- ☐ pylab.savefig
- ☒ pylab.savefig('Fig1.png')
- ☐ None of the above

- ☒ Fit
- ☐ Predict



- ☐ Both A and B
- ☐ None of the above

- ☐ n\_number
- ☒ n\_clusters
- ☐ cluster=3
- ☐ cluster(3)

- ☒ CountVectorizer
- ☐ TfidfTransformer
- ☐ Regression estimator
- ☐ Both A and B

- ☐ Finding all the "a" tags
- ☒ Extracting all the URLs found within a page's <a>tags
- ☐ Error in first line
- ☐ Error in second line

- ☐ Pickle
- ☐ Joblib
- ☒ Both A and B
- ☐ None of the above

- ☐ First line

- ☐ dataset.target
- ☒ np.unique(dataset.target)
- ☐ sklearn.unique(dataset.target)
- ☐ sklearn.unique(dataset.y)

- 
- ☐ mysql
  - ☐ pysqlite
  - ☒ sqlite3
  - ☐ pysqln

- ☐ TRUE
- ☒ FALSE

- ☒ metrics
- ☐ test\_accuracy
- ☐ validate

- ☐ validate
- ☐ check\_score

- ☐ getKeys()
- ☒ keys()
- ☐ fetchKeys()
- ☐ receiveKeys()

- ☐ K-means clustering
- ☐ Affinity Propagation
- ☒ Principal Component Analysis
- ☐ Hierarchical Clustering

☒ TRUE

☐ FALSE

## FAQs

Will this practice test helps in clearing the actual certification exam?

Yes, this practice test gives you a simulated test like environment as you would experience in the actual

Can I retake this Practice Test?

## Recommended Resources

Who can take up this Data Science with Python Certification mock test?

Are these the same questions I'll see on the real exam?

Python Interview Guide

Data Science Career Guide: A Comprehensive Playbook To Becoming  
A Data Scientist

Data Science Interview Guide

Introduction to Data Science: A Beginner's Guide

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