INFS 772 Quiz 3 Pandas

(Total 10 points + 2 extra credits, 1 point each)

Q.1 Which function from the options given below can read the dataset from a large text file?

read_json

read_pickle

read_hdf

read_csv*

Q.2 This function in the library of Pandas allows you to manipulate data and create new variables:

read_csv function

pivot_table function

apply function*

merge function

Q.3 Which among the following options can be used to create a DataFrame in Pandas?

A scalar value

An ndarray

A python dict

All of the above*

Q.4 What happens to the indexes when any operations are done to unaligned series?

Total*

Union

Intersection

All of the above

Q.5 A series is a one-dimensional array which is labelled and can hold any data type.

True*

False

Q.6 Which of the following can be used to make a Dataframe?

Series

DataFrame

Structured ndarray

All of the above*

Q.7 Identify the correct statement:

Moving window statistics is present in pandas.

Pandas have a set of array data structures which are labelled.

Pandas consists of an integrated group by engine for transforming and aggregating data sets.

All of the above*

Q.8 If the data is in the form of an ndarray, the index and the data must be of the same length.

True*

False

Q.9 Among the following options, which operation works with a syntax same as that of the analogous dictionary operations?

Deleting columns

Setting columns

Getting columns

All of the above*

Q.10 Assume that you are given two lists:

a = [1,2,3]

b = [4,5,6]

Your task is to create a list which contains all the elements of a and b in a single dimension. Output:

a = [1,2,3,4,5,6]

Which of the following functions will you use?

a.append(b)

a.extend(b)*

any one of the above

none of the above

Q.11 Are DataFrames containers for Series?

True*

False

Q.12 Which among the following statements are true with respect to the Series and DataFrames in Pandas?

The 2 key structures in Pandas are Series and DataFrames.*

For Pandas, the core data model is Series, while the secondary model is DataFrame. *

The DataFrame is like an Excel workbook.*

Accessing individual elements is not allowed in Series through labels.