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.