

Python 101 Quiz 2

Updated May 19, 2023

Python basic, data wrangling, and data analysis.

Total: 24 Points

* Required

Section 1: Python Basics

1. Email: *

2.	First Name: *			
3.	Last Name: *			
4.	Which of the following is an example of an escape characters? * (1 Point)			
	\u			
	None of the above			
5.	Which of the following is the correct syntax of a Lambda function? * (1 Point)			
	lambda(arguments, expression)			
	lambda expression: arguments			
	lambda arguments : expression			
	lambda(expression, arguments)			

6.	5. What datatype is this example: True * (1 Point)	
	\bigcirc	bool
	\bigcirc	str
	\bigcirc	int
	\bigcirc	char
7.		at does this result in: re.split("_", "Memorial_Hermann_Data_Science_Team")?
	\bigcirc	["Memorial_", "Hermann_", "Data_", "Science_", "Team"]
	\bigcirc	["memorial", "hermann", "data", "science", "team"]
	\bigcirc	["Memorial", " _Hermann", " _Data", " _Science", " _Team"]
	\bigcirc	["Memorial", "Hermann", "Data", "Science", "Team"]
8.	Whi	ch the following is required for a Python conditional statement? * (1 Point)
	\bigcirc	if
	\bigcirc	else
	\bigcirc	elif
	\bigcirc	All of them are required for a Python conditional statement

Section 2: Data Ingestion

9.	Wha	at does the following do? pd.read excel("file.xlsx") * (1 Point)
	\bigcirc	Reads a flat csv file named "file"
	\bigcirc	Reads a flat json file named "file"
	\bigcirc	Reads a flat excel file named "file"
	\bigcirc	Reads a flat text file named "file"
10.	Whi	ch of the following is a Pandas reader method? * (1 Point)
	\bigcirc	<pre>pd.read_text()</pre>
	\bigcirc	<u>pd.read_j</u> son()
	\bigcirc	pd.read_pdf()
	\bigcirc	pd.read_file()
11.	Whi	ch of the following is a Pandas writer method? * (1 Point)
	\bigcirc	<u>pd.to_</u> text
	\bigcirc	<u>pd.to_</u> sas
	\bigcirc	<u>pd.to_</u> csv
	\bigcirc	<u>pd.to_</u> file

12.	Hov	do you write to a csv file called "result" with a pipe (" ") delimiter? * (1 Point)
	\bigcirc	<pre>pd.to_csv("result.csv")</pre>
	\bigcirc	<pre>pd.to_csv("result.xlsx")</pre>
	\bigcirc	<pre>pd.to_csv("result.csv", sep= " ")</pre>
	\bigcirc	<pre>pd.to_csv("result.xlsx", sep= " ")</pre>
13.	Whi	ch of the following is NOT a flat file? * (1 Point)
	\bigcirc	filename.csv
	\bigcirc	filename.txt
	\bigcirc	filename.xlsx
	\bigcirc	filename.sql

Section 3: Data Exploration

14.	How	do you remove empty columns from DataFrame df? * (1 Point)
	\bigcirc	df.dropna(axis=0, how='all')
	\bigcirc	df.dropna(axis=1, how='all')
	\bigcirc	df.dropcol(axis=0)
	\bigcirc	df.drops(axis=1)
15.	Wha	at does the df.describe() method produce? * (1 Point)
	\bigcirc	Generates a descriptive analysis of the columns with int64 or float64 datatype by default.
	\bigcirc	Generates a descriptive analysis of all columns in the dataframe.
	\bigcirc	Generates a descriptive analysis of the rows with int64 or float64 datatype by default.
	\bigcirc	Generates a descriptive analysis of all text columns in the dataframe.
16.	Wha	at does df['colA'].unique() return? * (1 Point)
	\bigcirc	A series object that shows the count of unique values in the "colA" column of Dataframe df.
	\bigcirc	A list of unique values from the "colA" column of Dataframe df.
	\bigcirc	A count of unique values from the "colA" column of Dataframe df.
		A series object of unique values from the "colA" column of Dataframe df.

17.		do you get the count of unique values from column "colB" from Dataframe df? Point)
	\bigcirc	df["colB"].count_unique()
	\bigcirc	df["colB"].num_unique()
	\bigcirc	df["colB"].nunique()
	\bigcirc	df["colB"].unique()
18.	Wha	t does df["colC"].value_counts() return? * (1 Point)
	\bigcirc	A series containing counts of unique values within column "colC" of Dataframe df
	\bigcirc	A list containing counts of unique values within column "colC" of Dataframe df
	\bigcirc	A dataframe containing counts of unique values within column "colC" of Dataframe df
		A dict containing counts of unique values within column "colC" of Dataframe df

Section 4: Data Wrangling

19.	How	to convert a Pandas Series object x to a number or numeric type? * (1 Point)
	\bigcirc	to_number()
	\bigcirc	to_numeric()
	\bigcirc	pd.to_number(x)
	\bigcirc	pd.to_numeric(x)
20.	Whi	ch of the following is the INCORRECT way to use the loc method? * (1 Point)
	\bigcirc	df.loc[:, ['column_one', 'column_two']]
	\bigcirc	df.loc[0, 5]
	\bigcirc	df.loc[0, 'column_one']
	\bigcirc	df.loc[df['column_one'] == 0]
21.	Wha	at does df.iloc[0:2, 2:4] do? * (1 Point)
	\bigcirc	Selected from a dataframe (df) row indices from 0 to 1 and column indices from 2 to 3.
	\bigcirc	Selected from a dataframe (df) row indices from 0 to 2 and column indices from 2 to 4.
	\bigcirc	Selected from a dataframe (df) column indices from 0 to 1 and row indices from 2 to 3.
	\bigcirc	Selected from a dataframe (df) column indices from 0 to 2 and row indices from 2 to 4.

22.	Whi	ch of the following concat dataframe df2 to df1? * (1 Point)
	\bigcirc	pd.concat(df1, df2)
	\bigcirc	df1.concat(df2)
	\bigcirc	df1 = pd.concat(df2)
	\bigcirc	pd.concat([df1, df2])
23.		ch of the following left joins df1 and df2 with df1 as the left dataframe using umn_one' as joining key? * (1 Point) pd.merge(df2, df1, how='left', on=['column_one']) pd.merge(df2, df1, on=['column_one']) df1.merge(df2, how='left', on=['column_one'])

Section 5: Data Analysis & Reporting

24. Which of the following fills missing values in Dataframe df with forward fill method?* (1 Point)
df.fillna(method='ffill')
df.ffill()
df.pad()
All the above
25. Which method drops duplicate rows from Dataframe df and returns a dataframe without these duplicated rows? * (1 Point)
df.drop_duplicate()
df.drop_duplicated()
df.drop_duplicates()
df.drop_duplicate_rows()

26. What does df.groupby() do? * (1 Point)
Groups a dataframe by a mapper or dataframe of columns
Groups a dataframe by a mapper or Series of columns
Groups a Series by a mapper or dataframe of columns
Groups a Series by a mapper or Series of columns
27. Which of the following is NOT a data visualization supported by Pandas? * (1 Point)
O Bar Graph
O Pie Graph
C Line Graph
All of them are supported by Pandas
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