

## PYTHON - WORKSHEET 9 (PANDAS)

Q1 to Q8 have only one correct answer. Choose the correct option to answer your qu	uestion.
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1.	Which among the following options can be used to create a DataFrame in Pandas?		
	A) An ndarray	B) a python dictionary	
	C) A scalar value	D) All of the above	
2.	A series is a one-dimensional array which is labelled and can hold any data type.		
	A) True	B) False	
3.	Which of the follow	wing operation works with the same syntax as the analogous dictionary operations?	
	A) Getting column	B) setting columns	
	C) deleting column	· · · · · · · · · · · · · · · · · · ·	
4.	pandas.NA = = pandas.NA, will give which of the following result?		
	A) <na></na>	B) True	
	C) False	D) Error	
5.	A panel is a	_ container of data in pandas?	
	A) 1 dimensional	B) 2 dimensional	
	C) 3 dimensional	D) infinite dimensions	
6.	What will be the output of the following lines of code?		
	import pandas as pd		
	import num	•	
	_	es(np.random.randn(4))	
	print(s.ndin		
	A) Error	B) 3	
	C) 2		
7.		ving indexing capabilities is used as a concise means of selecting data from a pandas	
	object??		
	A) in	B) iy	
	C) ix	D) ipy	
8.	All pandas data structures are mutable but not always mutable.		
	A) size, value	B) value, size	
	C) semantic, size	D) None of these	
00 one	l O10 hava multipla	correct answers. Choose all the correct options to answer your question.	
Q) and			
9.		tatements from the following.	
	A) A DataFrame is like a fixed-size dictionary in that you can get and set values by index label.		
		ssed into most NumPy methods expecting an ndarray.	
		e between Series and ndarray is that operations between Series automatically align the data	
	based on label		
	_	values must be unique	
10	. Which of the follow	ving file formats are allowed for input output in pandas?	
	A) JSON	B) HTML	
	C) CSV	D) TXT	
Q11 to	Q15 are programm	ning questions. Answer them in Jupyter Notebook.	
11	. Write a Pandas pro	gram to create and display a DataFrame from the following dictionary data and labels:	
	r		

## **Q**11

exam\_data = {'name': ['Anastasia', 'Dima', 'Katherine', 'James', 'Emily', 'Michael', 'Matthew', 'Laura', 'Kevin', 'Jonas'], 'score': [12.5, 9, 16.5, np.nan, 9, 20, 14.5, np.nan, 8, 19],

```
'attempts': [1, 3, 2, 3, 2, 3, 1, 1, 2, 1],
'qualify': ['yes', 'no', 'yes', 'no', 'no', 'yes', 'yes', 'no', 'no', 'yes']}
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labels = [T', 'II', 'III', 'IV', 'V', 'VI', 'VII', 'VIII', 'IX', 'X']

- 12. Write a Pandas program to get the first 5 rows of the DataFrame created in Q11.
- 13. Write a Pandas program to select the 'name' and 'score' columns of the DataFrame created in Q11.
- 14. Write a Pandas program to select 'name' and 'score' columns in row indexes 3, 5, 6, 8 from the DataFrame created in Q11.
- 15. Write a Pandas program to select the rows where the score is between 15 and 20 (inclusive) from the DataFrame created in Q11.

