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1. For the following code, which of the following statements will **not** return True?

1/1 point

```
import pandas as pd
sdata = {'Ohio': 35000, 'Texas': 71000, 'Oregon': 16000, 'Utah': 5000}

obj1 = pd.Series(sdata)
states = ['California', 'Ohio', 'Oregon', 'Texas']

obj2 = pd.Series(sdata, index=states)

obj3 = pd.isnull(obj2)
```

_			
•	1	obj2['California'] == None	

0	1 2	<pre>import math math.isnan(obj2['California'])</pre>	

\circ	1	obj3['California']	

```
1 x = obj2['California']
2 obj2['California'] != x
```

✓ Correct

The value of obj2['California'] is nan which is not the same as None, so this will return False

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2.	<pre>1 import pandas as pd 2 d = {'1': 'Alice','2': 'Bob','3 3 S = pd.Series(d)</pre>	3': 'Rita','4': 'Molly','5': 'Ryan'}		1 / 1 point
	In the above python code, the keys of the dict following can be used to extract rows with stu	cionary d represent student ranks and the value for each kendent ranks that are lower than or equal to 3?	ey is a student name. Which of the	
	S.iloc[0:2]			
	S.loc[0:3]			
	S.loc[0:2]			
	S.iloc[0:3]			
	○ Correct S.iloc[i:j] can be used to retrieve Series	rows from indices i to j-1		
3.	Suppose we have a DataFrame named df . We case. Which of the following expressions is inc	want to change the original DataFrame df in a way that all correct to perform the same?	the column names are cast to upper	1/1 point
	df = df.rename(mapper = lambda x: x.upp	per(), axis = 'columns')		
	df.rename(mapper = lambda x: x.upper(),	axis = 1, inplace = True)		
	df.rename(mapper = lambda x: x.upper(),	axis = 1)		
	df = df.rename(mapper = lambda x: x.upp	per(), axis = 1)		
	○ Correct This is incorrect because the rename mean pataFrame df or set the inplace parame	ethod will return a new DataFrame by default. We have to eter to 'True'.	pass the result to our original	
4.				1 / 1 point

gre score toefl score

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360	пы	No.
~		

1	337	118
2	324	107
3	316	104
4	322	110
5	314	103

	For the given DataFrame df we want to keep only the records with a toefl score greater than 105. Which of the following will not work?	
	df.where(df['toefl score'] > 105).dropna()	
	All of these will work	
	df.where(df['toefl score'] > 105)	
	O df[df['toefl score'] > 105]	
	Correct This will not work as df.where() will not drop any data we don't want, it will just set their values to nan.	
5.	Which of the following can be used to create a DataFrame in Pandas?	1/1 point
	O 2D ndarray	
	O Pandas Series object	
	O Python dict	
	All of these work	
	Correct All of these can be used to create a DataFrame in Pandas	

6. Which of the following is an **incorrect** way to **drop** entries from the Pandas DataFrame named **df** shown below?

1/1 point

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	one	two	three	four
Ohio	0	1	2	3
Colorado	4	5	6	7
Utah	8	9	10	11
New York	12	13	14	15

\bigcirc	df.drop('one'	axis	= 1)
()	ui.ui opi	One,	anıs	- 1

- Odf.drop('Ohio')
- df.drop(['Utah', 'Colorado'])
- df.drop('two')
- ✓ Correct

This is an incorrect way to drop values from the column named 'two' because the axis has not been specified as 1 (representing 'columns') and the default value of axis is 0. It would yield the following error: KeyError: '['two'] not found in axis'.

7. For the Series **s1** and **s2** defined below, which of the following statements **will give an error**?

1/1 point

```
1 import pandas as pd
2 s1 = pd.Series({1: 'Alice', 2: 'Jack', 3: 'Molly'})
3 s2 = pd.Series({'Alice': 1, 'Jack': 2, 'Molly': 3})
```

s2.iloc[1]

s2.loc[1]

O s2[1]

O s1.loc[1]

✓ Correct

There is no index of value 1 in s2, hence this will give an error.

1/31/23, 10:04 PM Quiz 2 | Coursera **8.** Which of the following statements is **incorrect**? 1/1 point We can use **s.iteritems()** on a **pd.Series** object **s** to iterate on it. loc and iloc are two useful and commonly used Pandas methods. If s is a pd.Series object, then we can use s.loc[label] to get all data where the index is equal to label. If s and s1 are two pd. Series objects, we cannot use s.append(s1) to directly append s1 to the existing series s ✓ Correct loc and iloc are attributes of pandas. Series object, not methods. 9. 1/1 point gre score toefl score Serial No. 337 118 324 107 316 104 322 110 314 103 For the given DataFrame df shown above, we want to get all records with a toefl score greater than 105 but smaller than 115. Which of the following expressions is **incorrect** to perform the same? df[df['toefl score'].gt(105) & df['toefl score'].lt(115)] (df['toefl score'] > 105) & (df['toefl score'] < 115) Odf[(df['toefl score'].isin(range(106, 115)))]

10. Which of the following is the correct way to extract all information related to the student named Alice from the DataFrame df given below:

This will just return a boolean mask of True's and False's instead of filtering the correct rows.

1/1 point

df[(df['toefl score'] > 105) & (df['toefl score'] < 115)]</pre>

✓ Correct

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(Major)	Name	Age	Gender
Mathematics	Alice	20	F
Sociology	Jack	22	М

•	df.T['Mathematics']
0	df['Mathematics']
0	df['Alice']
0	df.iloc['Mathematics']

⊘ Correct

This will correctly extract Alice's data as 'Mathematics' would be a column in df.T and column names can be passed as a key to retrieve the contents of the entire column, i.e. Alice's information in this case