EduBridge- Pandas-MCQ4

1.How does a DataFrame in pandas differ from a record array in NumPy?
A.The DataFrame has column names.
B.The DataFrame can contain any data type, but the NumPy array can contain only integers.
C.The DataFrame has an index that can be any data type.
D.A DataFrame contains only an index and a one-dimensional array.

2.Which of the following is NOT a legal way to create a Pandas DataFrame?
A.pd.DataFrame(integer=[1,2,3], square=[1,4,9])
B.pd.DataFrame([(1,1), (2,4), (3,9)], columns=['integer','square'])
C.pd.DataFrame({'integer': [1,2,3], 'square': [1,4,9]})
D.pd.DataFrame([{'integer': 1, 'square': 1}, {'integer': 2, 'square': 4}, {'integer': 3, 'square': 9}])

3. All pandas data structures are ___ mutable but not always _____mutable.
A.size, value
B.semantic, size
C. value, size
D. none of the mentioned

4. Which of the following object you get after reading CSV file?
A.DataFrame
B.Character Vector
C.Panel
D.All of the mentioned

5.In pandas, Index values must be?
A. unique
B. hashable
C. Both A and B
D. None of the above

6.Choose the correct statement :
Statement1 : A Numpy array requires homogeneous data.
Statement2 : Pandas DataFrame can have heterogeneous data.
A. Statement1 is correct
B. Statement2 is correct
C. Both the statements are correct
D. Both the statements are wrong

7.Write the output of the following:
import pandas as pd
S1=pd.Series(data=[11, 12, None, 6,9,7],index=[1,12,3,4,2,4])
print(S1.count())
A. 4
B. 6
C. 5
D. Error

8.

. For a given dataframe

```
      coachid    name    rank

A        1       Jack     12

B        2       Kim      3

C        3       Rajan    4

D        4       Juber    11

E        5       Hanuma   2
```

When Raja is trying to rename indexes using following code

df.rename(index=['a','b','c'])

he is getting error. Help him to select correct command to rename columns

a. df.rename(index=['a','b','c'], column = {})

b. df.rename(index={'A':'a','B':'b','C':'c'})

c. df.rename(index=['A'='a','B'='b','C'='c'])

d. df.rename(index=('a','b','c'))

9.

Which of the following is not parameter of append() method used to merge two dataframes?

a. Axis

b. Sort

c. Verify_intigrity

d. Ignore_index

10.

Find the output of the following code:

df = pd.DataFrame({'soap': pd.Series([23,45,34],['A','B','C']), 'salt' : pd.Series([11,23],['A','B']), 'sugar':pd.Series([20,54],['C','D'])})

print(df)

a.   soap salt sugar

A 23.0 11.0 NaN

B 45.0 23.0 NaN

C 34.0 NaN 20.0

D NaN NaN 54.0

b. A   B   C   D

soap 23.0 45.0 34.0 NaN

salt 11.0 23.0 NaN NaN

sugar NaN NaN 20.0 54.0