

Python for Computer Science and Data Science 1 (CSE-3651)

Quiz-4

1. What is a correct syntax to add the labels "x", "y", and "z" to a Pandas Series?

- A) `pd.Series(mylist, index=["x", "y", "z"])`
- B) `pd.Series(mylist, names=["x", "y", "z"])`
- C) `pd.Series(mylist, labels=["x", "y", "z"])`
- D) None of the above

2: Which of the following returns the statistical data about the numerical columns in the data frame df?

- A) `print(df.describe())`
- B) `print(df.stats())`
- C) `print(describe(df))`
- D) `print(stats(df))`

3. Which of the following is/are used to get the columns named 'clmn1' and 'clmn3' from the data frame df?

- A) `print(df.loc['clmn1', 'clmn3'])`
- B) `print(df.loc[['clmn1', 'clmn3']])`
- C) `print(df.iloc['clmn1', 'clmn3'])`
- D) `print(df.iloc[['clmn1', 'clmn3']])`

4. What does `df['A'] > 5` return when applied to a DataFrame?

- A) A filtered DataFrame where column A is greater than 5
- B) A Boolean Series indicating whether each value in column A is greater than 5
- C) A DataFrame with rows where column A is greater than 5
- D) None of the above

5. What will be the output of the following Python code?

```
str1="PYnative"  
print(str1[1:4],str1[:5],str1[4:],str1[0:-1],str1[:-1])
```

- A. PYn PYnat ive PYnativ vitanYP
- B. Yna PYnat tive PYnativ vitanYP
- C. Yna PYnat tive PYnativ PYnativ
- D. None of the above

6. `max('YOUR','YOur','YOuR','YOU')` yields

- A) 'YOUR'
- B) 'YOur'
- C) 'YOuR'
- D) 'YOU'

7. What will be the output of the following Python code?

```
x = '123'  
y = 'python'  
z = 'Python'  
print(y.islower() and z.isupper() or x.istitle())
```

- A) False
- B) True
- C) None
- D) 'Python123'

8. What will be the output of the following Python code?

```
str1 = 'ABC, XYZ, PQR'  
print(str1.partition(','))
```

- A) ('ABC', ',', 'XYZ, PQR')
- B) ('ABC', ',', 'XYZ', ',', 'PQR')
- C) ('ABC, XYZ', ',', 'PQR')
- D) ('ABCXYZPQR')

9. What is the meaning of the symbol * used in regular expressions?

- A) Zero or more occurrences of the preceding pattern.
- B) Exactly one arbitrary character excluding newline.
- C) Zero or one occurrences of the preceding pattern
- D) One or more occurrences of the preceding pattern

10. The function of re.search is _____

- A) Matches a pattern at the start of the string
- B) Matches a pattern at the end of the string
- C) Matches a pattern from any part of a string
- D) Such a function does not exist