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Exam : **PCAD-31-02**

Title : Python Institute Certified
Associate Data Analyst with
Python (PCAD-31-02)

Vendor : Python Institute

Version : DEMO

NO.1 Which method is appropriate for combining two DataFrames based on a shared key column where non-matching rows should be excluded from the result?

- A. concat()
- B. append()
- C. merge(..., how='inner')
- D. join(..., how='outer')

Answer: C

NO.2 What is the primary purpose of using annotations in a data visualization?

- A. To replace the need for axes
- B. To enhance interactivity in static plots
- C. To highlight important data points and provide contextual information
- D. To ensure faster rendering in large datasets

Answer: C

NO.3 What result will the following Pandas expression return: df['Age'].notnull().all()?

- A. Returns True if all values in 'Age' are NULL
- B. Returns True if at least one value in 'Age' is not NULL
- C. Returns True if all values in 'Age' are not NULL
- D. Returns the number of NULL values in 'Age'

Answer: C

NO.4 Which of the following are key differences between Pandas and NumPy arrays?

(Choose two)

- A. Pandas handles labeled data; NumPy does not
- B. NumPy supports string indexing; Pandas does not
- C. Pandas Series are more memory efficient than NumPy arrays
- D. Pandas integrates better with tabular data and missing values

Answer: A,D

NO.5 Which actions are considered best practices when managing datasets in Python using pandas?

(Choose two)

- A. Always convert all columns to strings
- B. Use .info() to understand dataset structure
- C. Replace missing values with hardcoded zeros without analysis
- D. Use .describe() for summary statistics

Answer: B,D

NO.6 Which type of chart is most appropriate when comparing the distribution of a numerical variable across multiple categories?

- A. Pie chart
- B. Scatter plot
- C. Box plot

D. Line chart

Answer: C

NO.7 When creating a line chart with Matplotlib, which function is most appropriate to add a text label at a specific data point?

A. plt.legend()

B. plt.annotate()

C. plt.xlabel()

D. plt.title()

Answer: B

NO.8 Which techniques are most effective when designing reusable and testable functions in Python?

(Choose two)

A. Use of default parameters

B. Returning print statements instead of values

C. Avoiding external state or side effects

D. Creating large monolithic functions

Answer: A,C

NO.9 What is the primary reason for using parameterized queries instead of directly formatting SQL strings in Python?

A. To reduce the number of SQL statements

B. To allow dynamic table creation

C. To prevent SQL injection vulnerabilities

D. To simplify data encryption

Answer: C

NO.10 Which of the following is the most suitable data structure in Python for representing a tabular row with column names?

A. list

B. tuple

C. dictionary

D. set

Answer: C

NO.11 Which Python tool or library is best suited for retrieving data from HTML tables on web pages?

A. re

B. pandas.read_html()

C. math

D. sqlalchemy

Answer: B

NO.12 Which techniques can be used to select a subset of rows and columns from a DataFrame using labels?

(Choose two)

- A. `df.loc[:, 'col1']`
- B. `df.iloc[0:5, 'col2']`
- C. `df.loc[2:7, ['col1', 'col2']]`
- D. `df['col1', 'col2']`

Answer: A,C

NO.13 Which of the following statements correctly describe best practices when managing Python modules and packages in data analytics workflows?

(Choose two)

- A. Always install packages system-wide for accessibility
- B. Use virtual environments to isolate project dependencies
- C. Regularly update all packages using `pip update all`
- D. Use PIP to install and uninstall third-party libraries as needed

Answer: B,D

NO.14 Which SQL commands can be used to modify the contents of a table's data directly?

(Choose all that apply)

- A. UPDATE
- B. DELETE
- C. SELECT
- D. INSERT

Answer: A,D

NO.15 What is the main purpose of defining a class when working with complex data structures in a Python-based analysis project?

- A. To define global variables that persist across files
- B. To encapsulate related data and behavior for better organization
- C. To avoid using loops and conditional logic
- D. To ensure all values are stored as plain strings

Answer: B