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Python Institute Certified Associate Data Analyst with
Python

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Question: 1

What is the main advantage of using Seaborn over Matplotlib when creating complex statistical visualizations in Python?

- A. Seaborn automatically saves plots as image files
- B. Seaborn provides high-level abstractions for attractive and informative graphics
- C. Seaborn requires no data preprocessing for missing values
- D. Seaborn works exclusively with NumPy arrays

Answer: B

Question: 2

Why is it important to define and apply validation rules consistently across all stages of a data pipeline?

- A. It reduces processing time by skipping null checks
- B. It guarantees compatibility with visualization tools
- C. It prevents the propagation of corrupted or invalid data
- D. It automatically optimizes SQL queries

Answer: B

Question: 3

Which metric is most appropriate for evaluating the accuracy of a classification model?

- A. R-squared
- B. Confusion matrix
- C. Mean squared error
- D. Precision

Answer: D

Question: 4

Which of the following improves the readability of a spreadsheet used for collaborative data analysis?

- A. Removing gridlines from all sheets
- B. Using colored fonts to highlight every cell
- C. Adding freeze panes to lock header rows
- D. Converting numeric values into images

Answer: C

Question: 5

Which approaches help tailor data visualizations for non-technical stakeholders?
(Choose two)

- A. Use jargon-rich annotations
- B. Focus on trend and summary metrics
- C. Add context through narrative or titles
- D. Use raw code outputs for clarity

Answer: B,D

Question: 6

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

Question: 7

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

Question: 8

Which practices contribute to better exception handling in data pipelines involving file I/O and numerical computations?

(Choose two)

- A. Catching all exceptions using a generic except: clause without specifying the error
- B. Logging error messages for later inspection during failures
- C. Using specific exception types like FileNotFoundError or ZeroDivisionError
- D. Suppressing all error output using pass

Answer: B,D

Question: 9

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

Question: 10

What is the benefit of using the `__name__ == "__main__"` construct in Python scripts?

- A. It allows access to all global variables
- B. It prevents modules from being imported
- C. It defines the main function in Python
- D. It allows selective execution of code when run as a script

Answer: D

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