1. **Which of the following describes the condition under which the Mann-Kendall test is applied without assumptions of normality?**
    - A) When the data has serial correlation
    - B) When the data follows a log-normal distribution
    - C) When the central value or median changes over time
    - D) When the time series is linear with a constant variance

    Answer: C) When the central value or median changes over time

2. **What is the primary advantage of using nonparametric methods like the Mann-Kendall test over OLS regression in trend analysis?**
    - A) Higher sensitivity to outliers
    - B) Assumption of linearity in the relationship between variables
    - C) Independence from assumptions about the distribution of residuals
    - D) Requirement for a larger sample size

    Answer: C) Independence from assumptions about the distribution of residuals

3. **In the context of trend tests, what is a key reason for incorporating exogenous variables into the analysis?**
    - A) To increase the complexity of the model
    - B) To explain a substantial part of the variance of the response variable
    - C) To ensure the normality of residuals
    - D) To minimize the number of variables in the model

    Answer: B) To explain a substantial part of the variance of the response variable

4. **Which of the following best describes the Theil-Sen estimator in the context of trend analysis?**
    - A) It minimizes the sum of squared residuals
    - B) It calculates the mean slope of all data points
    - C) It is robust to outliers and uses the median of slopes between all pairs of points
    - D) It assumes residuals are normally distributed and have constant variance

    Answer: C) It is robust to outliers and uses the median of slopes between all pairs of points

5. **Which approach should be used when the number of analyses required makes detailed case-by-case checking of assumptions impractical?**

    - A) Ordinary Least Squares Regression
    - B) Nonparametric procedures
    - C) Polynomial regression
    - D) Simple average method

    Answer: B) Nonparametric procedures