

Q.No.1

What is a hypothesis?

- A. A statement that the researcher wants to test through the data collected in a study
- B. A research question the results will answer
- C. A theory that underpins the study
- D. A statistical method for calculating the extent to which the results could have happened by chance

Q.No.2

Least Square Method uses ____.

- A. Linear polynomial
- B. Linear regression
- C. Linear sequence
- D. None of the mentioned above

Q. No. 3

Alternative Hypothesis is also called as?

- A. Null Hypothesis
- B. Research Hypothesis
- C. Simple Hypothesis
- D. None of the mentioned above

Q. No. 4

Data Analysis is defined by the statistician?

- A. John Tukey
- B. Hans Peter Luhn
- C. Gregory Lon
- D. None of the mentioned above

Q. No. 5

All pandas data structures are ____ mutable but not always _____mutable.

- a) size, value
- b) semantic, size
- c) value, size
- d) none of the mentioned

Q. No. 6

Which of the following object you get after reading CSV file?

- a) DataFrame
- b) Character Vector
- c) Panel
- d) All of the mentioned

Q. No. 7

Which of the following testing is concerned with making decisions using data?

- a) Probability

- b) Hypothesis
- c) Causal
- d) None of the mentioned

Q. No. 8

The expected value or _____ of a random variable is the center of its distribution.

- a) mode
- b) median
- c) mean
- d) bayesian inference

Q.No.9

Which of the following of a random variable is a measure of spread?

- a) variance
- b) standard deviation
- c) empirical mean
- d) all of the mentioned

Q.No.10

The square root of the variance is called the _____ deviation.

- a) empirical
- b) mean
- c) continuous
- d) standard

Q. No. 11

Which of the following inequality is useful for interpreting variances?

- a) Chebyshev
- b) Stautory
- c) Testory
- d) All of the mentioned

Q. No. 12

Chebyshev's inequality states that the probability of a "Six Sigma" event is less than

- a) 10%
- b) 20%
- c) 30%
- d) 3%

Q. No. 13

The _____ function returns its argument with a modified shape, whereas the _____ method modifies the array itself.

- a) reshape, resize
- b) resize, reshape
- c) reshape2, resize
- d) all of the mentioned

Q. No. 14

ndarray is also known as the alias array.

- a) True
- b) False

Q. No. 15

Which of the following things can be accomplished with linear model?

- a) Flexibly fit complicated functions
- b) Uncover complex multivariate relationships
- c) Build accurate prediction models
- d) All of the mentioned

Q. No. 16

Which of the following statement is incorrect with respect to outliers?

- a) Outliers can have varying degrees of influence
- b) Outliers can be the result of spurious or real processes
- c) Outliers cannot conform to the regression relationship
- d) None of the mentioned

Q.No.17

The _____ of a collection of data is the joint density evaluated as a function of the parameters with the data fixed.

- a) probability
- b) likelihood
- c) poisson distribution
- d) all of the mentioned

Q.No.18

Which of the following object has a method cov to compute covariance between series?

- a) Series
- b) DataFrame
- c) Panel
- d) None of the mentioned

Q. No. 19

The _____ of the Chi-squared distribution is twice the degrees of freedom.

- a) variance
- b) standard deviation
- c) mode
- d) none of the mentioned

Q. No. 20

Gosset's distribution is invented by which of the following scientist?

- a) William Gosset
- b) William Gosling
- c) Gosling Gosset
- d) All of the mentioned