First and last name .....

Question 1/25

The purpose of simple linear regression analysis is to:

A. Measure the degree to which two variables are linearly associated
B. Obtain the expected value of the independent random variable for a given value of the dependent variable
C. Predict one variable from another variable
D. Replace points on a scatter diagram by a straight-line

Question 2/25

The normal distribution depends on which of the following?

A. Mean and standard deviation
B. Standard deviation and number of successes
C. Sample size and probability of success
D. Mean and probability of success

Question 3/25

If a constant value is added to every observation of data, then arithmetic mean is obtained by:

A. Multiplying the constant
B. Subtracting the constant
C. Adding the constant
D. Dividing the constant

Question 4/25

The midpoint of the values after they have been ordered from the smallest to the largest or the largest to the smallest is called:

A. upper quartile
B. mean
C. lower quartile
D. median

Question 5/25

If vertical lines are drawn at every point of straight line in frequency polygon then by which way the frequency polygon is transformed

A. histogram
B. Bar chart
C. heatmap
D. wiremesh

Question 6/25

Which one of these statistics is unaffected by outliers?

A. interquartile range
B. range
C. standard deviation
D. Mean

Question 7/25

The elimination of extreme scores at the bottom of the set has the effect of:

A. Lowering the mean
B. No effect
C. Raising the mean
D. None of the above

Question 8/25

When might it be appropriate to conduct a multivariate analysis test?

A. If the relationship between two variables might be spurious.
B. If a third variable might be moderating the relationship.
C. If there could be an intervening variable.
D. All of the above.

Question 9/25

_____ is an example of a strategy used to reduce the likelihood of committing statistical error.

A. Filling in missing data
B. Including outliers in analysis
C. Excluding outliers in analysis
D. Altering or otherwise changing the data

Question 10/25

Any measure indicating the centre of a set of data, arranged in an increasing or decreasing order of magnitude, is called a measure
of:

A. symmetry
B. skewness
C. dispersion
D. central tendency

Question 11/25

A process by which we estimate the value of dependent variable on the basis of one or more independent variables is called:

A. residual
B. slope
C. correlation
D. regression

Question 12/25

Read the statements given below. Identify the right option from the following for pie chart.
Statement A: To make a pie chart with Matplotlib, we can use the plt.pie() function.
Statement B: The autopct parameter allows us to display the percentage value using the Python string formatting.

A. Both the statements are correct
B. Statement B is correct
C. Both the statements are wrong
D. Statement A is correct

Question 13/25

Normal Distribution is

A. None of these
B. PLatykurtic
C. Leptokurtic
D. Mesokurtic

Question 14/25

If all the points of a scatter diagram lie on a straight line falling from left upper corner to the right bottom corner, the correlation is called.....

A. High degree of positive correlation
B. Perfect positive correlation
C. Perfect negative correlation
D. Zero correlation

Question 15/25

If the points on the scatter diagram indicate that as one variable increases the other variable tends to decrease the value of r will be:

A. zero
B. negative
C. perfect negative
D. perfect positive

Question 16/25

The mean of 10 observations is 10. All the observations are increased by 10%. The mean of increased observations will be:

A. 1.1
B. 10.1
C. 10
D. 11

Question 17/25

What does a large standard deviation suggest?

A. The values are not widely distributed and the median would be an unreliable measure of the central tendency.
B. Values are not normally distributed.
C. Data and values are widely distributed and that the mean may not be a reliable measure of central tendency.
D. All of the measures of central tendency would be reliable

Question 18/25

Identify the right type of chart using the following hints.
Hint 1: This chart is often used to visualize a trend in data over intervals of time.
Hint 2: The line in this type of chart is often drawn chronologically.

A. pie chart
B. Line chart
C. scatter plot
D. bar chart

Question 19/25

Determine the 30th percentile of the following eight numbers: 14, 12, 19, 23, 5, 13, 28, 17.

A. 5
B. 13
C. 19
D. 23

Question 20/25

Which of the following would indicate that a dataset is not bell-shaped?

A. The mean is much smaller than the median.
B. The range is equal to 5 standard deviations.
C. The range is larger than the interquartile range.
D. There are no outliers.

Question 21/25

If the value of any regression coefficient is zero, then two variables are:

A. qualitative
B. correlation
C. dependent
D. independent

Question 22/25

Which of the following measures of variation is used most frequently because of its statistical properties and interpretive value?

A. Standard deviation
B. Mean
C. Range
D. Quartile deviation

Question 23/25

Skewness of Normal distribution is _____

A. 0
B. negative
C. positive
D. undefined

Question 24/25

When all the values in a series occur the equal number of times,then it is not possible to calculate the:

A. Harmonic mean
B. Arithmetic mean
C. Weighted mean
D. Geometric mean

Question 25/25

_____Statistics uses the data to provide descriptions of the population, either through numerical calculations or graphs or tables.

A. Quantitative
B. Descriptive
C. Inferential
D. Qualitative