In scatter diagram if both variables X and Y tend to move in the same direction the correlation is called

Select the correct option

○	No Correlation
○	Positive
○	Curvilinear
○	Negative

Click to Save Answer & Move to Next Question

BC200403638: USAMA YASIR

Time Left | **90** sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 06:21 PM, 16 February 2022

Question # 2 of 10 (Start time: 06:21:59 PM, 16 February 2022)   Total Marks: 1

if the value of r = 0, then there will be a perfect correlation between two variables.

Select the correct option

○ true

○ false

Click to Save Answer & Move to Next Question

Question # 6 of 10 (Start time: 06:28:31 PM, 16 February 2022)   Total Marks:

The statement
"Mean does not get affected by the extreme values or outliers in the data"
is . . . .

Select the correct option

○ True

○ False

Click to Save Answer & Move to Next Question

BC200403638: USAMA YASIR

| Time Left | 90 sec(s) |

MTH302 - Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 06:21 PM, 16 February 2022

Question # 5 of 10 (Start time: 06:26:51 PM, 16 February 2022)

Total Marks: 1

The point where a straight line cuts the x-axis is called

Select the correct option

- ⚪ x-intercept
- ⚪ starting point
- ⚪ slope
- ⚪ y-intercept

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 06:24:43 PM, 16 February 2022)   Total Marks: 1

What does the slope of the linear regression line represent?

Select the correct option

○ Horizontal distance between two points on the line.

○ Vertical distance from the line.

○ Rate of change of regression line.

○ Horizontal distance divided by vertical distance between two points on the line.

Click to Save Answer & Move to Next Question

BC210401127: MUHAMMAD FAISAL ZEESHAN

| Time Left | 84 sec(s) |

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 06:23 PM, 16 February 2022

Question # 1 of 10 (Start time: 06:23:53 PM, 16 February 2022)   Total Marks: 1

The square of the correlation coefficient is called the

Select the correct option

○ coefficient of determination

○ covariance

○ variance

○ big R

Click to Save Answer & Move to Next Question

BC200403638: USAMA YASIR

Time Left 88 sec(s)

MTH302 - Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 06:21 PM, 16 February 2022

Question # 10 of 10 (Start time: 06:33:51 PM, 16 February 2022)   Total Marks: 1

In the relationship between height and educational qualification

Select the correct option

○	none of the given choices
○	the height is independent and education is dependent variable
○	there is inverse relationship between the two
○	the height is dependent and education is independent variable

Click to Save Answer & Move to Next Question

Question # 7 of 10 (Start time: 06:29:45 PM, 16 February 2022)   Total Marks:

In scatter diagram the dependent variable is plotted on the

Select the correct option

- ○ y-axis

- ○ x-axis

Click to Save Answer & Move to Next Question

BC200403638: USAMA YASIR

Time Left   **90** sec(s)

MTH302 - Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 06:21 PM, 16 February 2022

Question # 8 of 10 (Start time: 06:31:03 PM, 16 February 2022)   Total Marks: 1

Suppose we developed the following least squares regression equation: $Y = 3.5 + 2.1X$. Which of the following statements is correct?

Select the correct option

○ If X = 5, then Y =15.

○ The equation crosses the Y-axis at 3.

○ The dependent variable increases 2.1 for an increase of 1 in X

○ X and Y are inversely proportional

Click to Save Answer & Move to Next Question

BC210401127: MUHAMMAD FAISAL ZEESHAN

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 3 of 10 (Start time: 06:41:39 PM, 16 February 2022)

A scatterplot of a correlation of .80 would look most like a

Select the correct option

○	ellipse.
○	circle.
○	square.
○	straight line.

BC200403638: USAMA YASIR

Time Left **90** sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)   Quiz Start Time: 06:21 PM, 16 February 2022

Question # 9 of 10 (Start time: 06:32:14 PM, 16 February 2022)   **Total Marks:** 1

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

Select the correct option

○ Mode

○ Standard deviation

○ Mean

○ Range

Click to Save Answer & Move to Next Question

BC210401127: MUHAMMAD FAISAL ZEESHAN

MTH302 – Business Mathematics & Statistics (Quiz 03)   **Quiz Start Tir**

Question # 4 of 10 (Start time: 06:43:50 PM, 16 February 2022)

Variance or standard deviation can be zero only if

Select the correct option

○ all the values in the data are unequal

○ all the values in the data are in ascending order

○ all the values in the data form in descending order

○ all the values in the data are equal

Click to Save Answ

MTH302 – Business Mathematics & Statistics (Quiz 03)   **Quiz S**

Question # 1 of 10 (Start time: 02:17:05 PM, 16 February 2022)

The minimum number of points required to calculate the intercept of a straight line is/are

Select the correct option

- ○ two
- ○ three
- ○ one
- ○ one or three

Click to Save

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 5 of 10 (Start time: 06:45:39 PM, 16 February 2022)

What is a scatter diagram ?

Select the correct option

○	a) diagram which scatters all elements of the variable.
○	d) choice # b & c
○	b) a graphic representation of the relationship of the variables
○	c) helps plot observed values

BC210401127: MUHAMMAD FAISAL ZEESHAN

Time Left 76 sec(s)

MTH302 - Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 06:23 PM, 16 February 20:

Question # 6 of 10 (Start time: 06:49:11 PM, 16 February 2022)

Total Mark

If there is a indirect relationship between rainfall & yield of crops then

Select the correct option

○ Yield is higher if rainfall is higher

○ Yield is lower if rainfall is less

○ Yield is equal to rainfall

○ Yield is higher if rainfall is less

Click to Save Answer & Move to Next Question

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 6 of 10 (Start time: 06:49:11 PM, 16 February 2022)

If there is a indirect relationship between rainfall & yield of crops then

▶ **Select the correct option**

○ Yield is higher if rainfall is higher

○ Yield is lower if rainfall is less

○ Yield is equal to rainfall

○ Yield is higher if rainfall is less

BC210401127: MUHAMMAD FAISAL ZEESHAN

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 8 of 10 (Start time: 06:52:47 PM, 16 February 2022

What are the central tendencies?

Select the correct option

○	Mean, median, mode and range
○	Mean, median, mode and midrange
○	Mean, median, mode and harmonic mean
○	none of them

Business Mathematics & Statistics (Quiz 03)

Question # 4 of 10 (Start time: 07:04:07 PM, 16 February 2022)

As the regression line equation is y = ax + b, where a is

Select the correct option

○ The x-intercept

○ The slope

○ y = x

○ The y-intercept

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 3 of 10 (Start time: 07:02:32 PM, 16 February 2022)

When there is no linear correlation between two variables, what will the value of r be?

Select the correct option

○ 0

○ -1

○ +1

○ a very small negative number

BC210401127: MUHAMMAD FAISAL ZEESHAN

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 9 of 10 (Start time: 06:54:14 PM, 16 February 2022)

The variance is calculated by squaring the standard deviation.

Select the correct option

○ False

○ True

Question # 8 of 10 (Start time: 07:09:28 PM, 16 February 2

In what range does correlation coefficient lie?

Select the correct option

○	-1 to +1
○	0 to +1
○	-1 to 0
○	greater than 1

What is the slope of the line y = -3.4x - 2.5?

Select the correct option

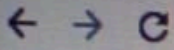|	
○	-3.4
○	-2.5
○	2.5
○	3.4

Question # 9 of 10 (Start time: 07:10:31 PM, 16 February 2022)

In scatter diagram, correlation is called negative, if the value of the dependent variable decreases as the value of the independent variable increases.

Select the correct option

False

○

True

○

Question # 6 of 10 (Start time: 07:07:01 PM, 16 February 2022)

A scatter diagram is a chart

Select the correct option

○ In which the independent variable is scaled along the horizontal axis.

○ All the given choices are true.

○ That portrays the relationship between two variables

○ In which the dependent variable is scaled along the vertical axis.
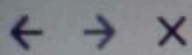
Esc   F1   F2   F3   F4   F5   F6   F7

Question # 10 of 10 (Start time: 07:13:14 PM, 16 February 2022)

If   Mean of X = 20.143   , Mean of Y = 6 ,   and Slope =   0.181176
Then intercept of the data is

Select the correct option

○ 3.45

○ 3.58

○ 2.35

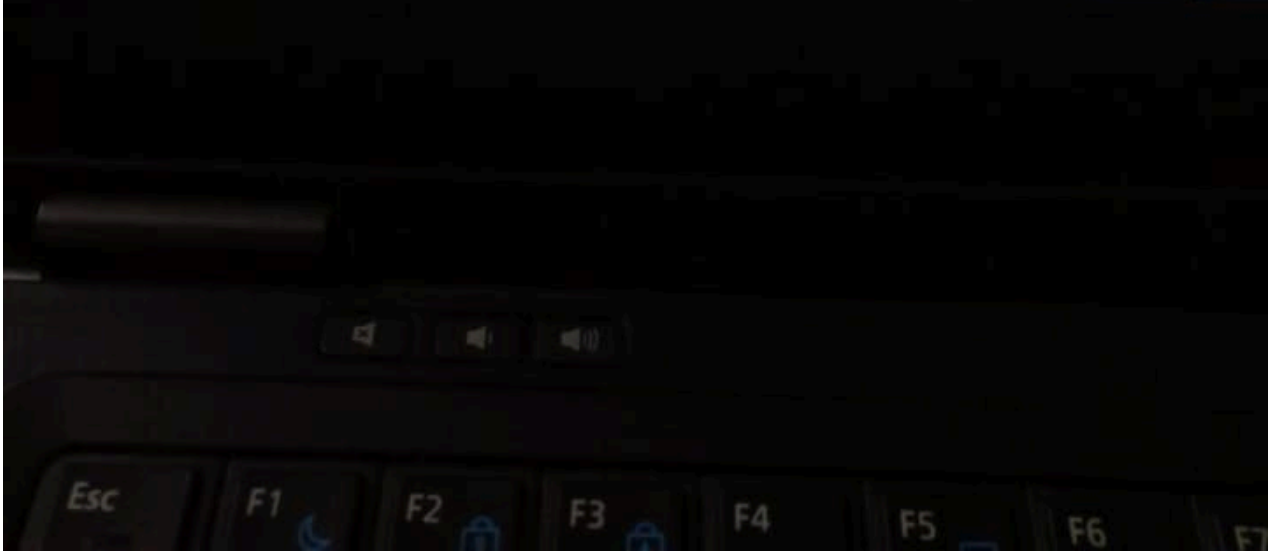○ 4.51

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Question # 7 of 10 (Start time: 07:07:56 PM, 16 February 2022)

For the set of data points with Y={2,3,9,1,8} and X={6,5,11,7,5} the intercepts is

Select the correct option

⦿	0.57
⦿	0.048387
⦿	2/3
⦿	0.003793

⊞   ◯ Type here to search

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 7 of 10 (Start time: 07:27:55 PM, 16 February 2022)

In the scatter diagram, clustering of points around a straight line indicates

Select the correct option

○	curvilinear regression
○	linear regression
○	none of these
○	non-linear regression

🏠 🔒 vulms.vu.edu.pk/Quiz/Quiz(| 1 | ⋮

BC210403843: MUHAMMAD SHOAIB

| Time Left | 84 sec(s) |

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 07:19 PM, 16 February 2022

Question # 6 of 10 (Start time: 07:26:43 PM, 16 February 2022)   Total Marks:

If the sample variance for a frequency distribution consisting of hourly wages was computed to be 10, what is the sample standard deviation?

Select the correct option

○ 10.00

○ 1.96

○ 4.67

○ 3.16

| Click to Save Answer & Move to Next Question |

BC210403843: MUHAMMAD SHOAIB

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 2 of 10 (Start time: 07:20:55 PM, 16 February 2022)

For Y = a - b X we say that relationship between
Y and X is

Select the correct option

○	indirect & linear
○	indirect & curvilinear
○	direct & curvilinear
○	direct & linear

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 5 of 10 (Start time: 07:25:53 PM, 16 February 2022)

The equation for the intercept of the regression line is Y=a+bX where b is

elect the correct option

○	Dependant variable
○	Intercept
○	Equation
○	Slope

BC210403843: MUHAMMAD SHOAIB

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 1 of 10 (Start time: 07:19:59 PM, 16 February 2022)

Standard deviation is always calculated from

Select the correct option

○	mean
○	none of these
○	median
○	mode

◀   ●   ■

Question # 8 of 10 (Start time: 07:29:22 PM, 16 February 2022)

Total Mar

In a set of 10 observations the mean is 20 and the median is 15. There are 2 values that are 6, and all other values are different. What is the mode?

Select the correct option

○ 15

○ 6

○ 20

○ 16

Click to Save Answer & Move to Next Question

BC210400008: SYED SAAD HUSSAIN

MTH302 – Business Mathematics & Statistics (Quiz 03)   **Qui**

Question # 1 of 10 (Start time: 07:38:57 PM, 16 February 2022)

As the regression line equation is $y = ax + b$, where b is

Select the correct option

○	None of those
○	The x-intercept
○	The slope
○	The y-intercept

Click to S

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 3 of 10 (Start time: 07:42:23 PM, 16 February 2022)

For the regression line:Y=a+bX, 'b' is the

Select the correct option

◯	Slope of the regression line
◯	none of these
◯	y-intercept
◯	x-intercept

BC210400008: SYED SAAD HUSSAIN

MTH302 – Business Mathematics & Statistics (Quiz 03) Quiz

Question # 4 of 10 (Start time: 07:43:44 PM, 16 February 2022)

The degree to which numerical data tend to spread about an average is called

Select the correct option

○ Correlation

○ None of these

○ The dispersion

○ Standard deviation

Click to Sa

BC210400008: SYED SAAD HUSSAIN

MTH302 – Business Mathematics & Statistics (Quiz 03)   Quiz Start Ti

Question # 7 of 10 (Start time: 07:48:30 PM, 16 February 2022)

The measurement of measure of degree of to which any two variables vary together is called

Select the correct option

a)Regression Coefficient

b)Correlation

d)None of these

c)Both (a) and (b)

Click to Save Answ

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 8 of 10 (Start time: 07:49:28 PM, 16 February 2022)

The regression equation is the line with slope passing through

Select the correct option

○	The point $(bar(y),bar(x))$
○	The point (x,y)
○	The point (y,x)
○	The point $(bar(x),bar(y))$

BC210400008: SYED SAAD HUSSAIN

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 9 of 10 (Start time: 07:50:55 PM, 16 February 2022)

The correlation between two variables measures the extent to which they are

Select the correct option

○ related with respect to effect.

○ mutually exclusive

○ causally related

○ associated

Question # 10 of 10 (Start time: 07:52:33 PM, 16 February 2022) Total Marks: 1

If the known y- values and x-values are given by following sets {2,3,9,1,8,7,5} and X={6,5,11,7,5,4,4} respectively then slope of the regression line is

Select the correct option

○	0.53
○	0.305

Question # 8 of 10 (Start time: 07:49:28 PM, 16 February 2022)

The regression equation is the line with slope passing through

Select the correct option

○ The point $(\bar{y}, \bar{x})$

○ The point (x, y)

○ The point (y, x)

○ The point $(\bar{x}, \bar{y})$

Click to Save Answer

MTH302 - Business Mathematics & Statistics (Quiz 05)

Question # 5 of 10 (Start time: 07:45:06 PM, 16 February 2022)

The sum of squares of the deviations of the observed values from the regression line is

Select the correct option

○ least or minimum
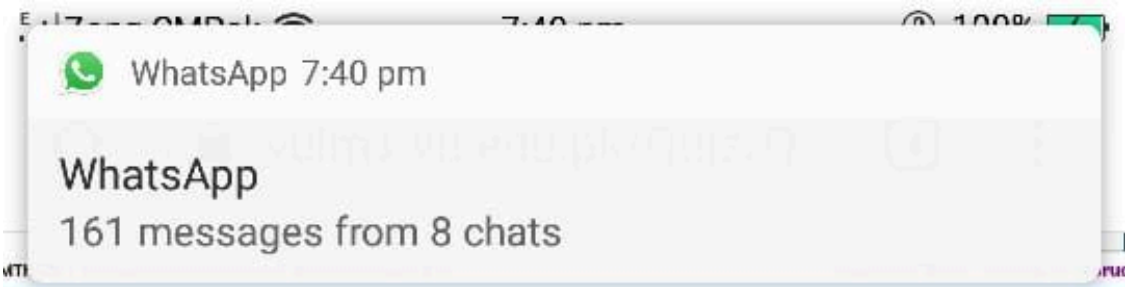
○ none of these

○ zero

○ maximum

Click to Save A

Question # 10 of 10 (Start time: 07:32:14 PM, 16 February 2022)

The sample coefficient of correlation

Select the correct option

○	is the square of the coefficient of correlation.
○	reports the percent of the variation in the dependent variable explaine
○	cannot be negative.
○	All given choices are correct

In a set of 10 observations the mean is 20 and the median is 15. There are 2 values that are 6, and all other values are different. What is the mode?

Select the correct option

- 18
- 20
- 6
- 15

Click to Save Answer & Move to Next Ques

Question # 9 of 10 (Start time: 07:30:47 PM, 16 February 2022)

Summary statistics for two samples of data are
Sample 1:   mean= 19   variance= 10
Sample 2:   mean= 10   variance= 19
Which sample has the more spread of observations?

Select the correct option

○	There is not enough information to answer the question
○	Sample 1 has more spreadness
○	Neither; they have the same spread
○	Sample 2 has more spreadness

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Question # 7 of 10 (Start time: 08:05:43 PM, 16 February 2022)

The measure of the degree to which any two variables vary together is called

Select the correct option

Mean deviation

Correlation

Positive variance

Variance

Question # 5 of 10 (Start time: 08:02:47 PM, 16 February 2022)

For the regression line:Y= a+bX,'a' is the

Select the correct option

none of these
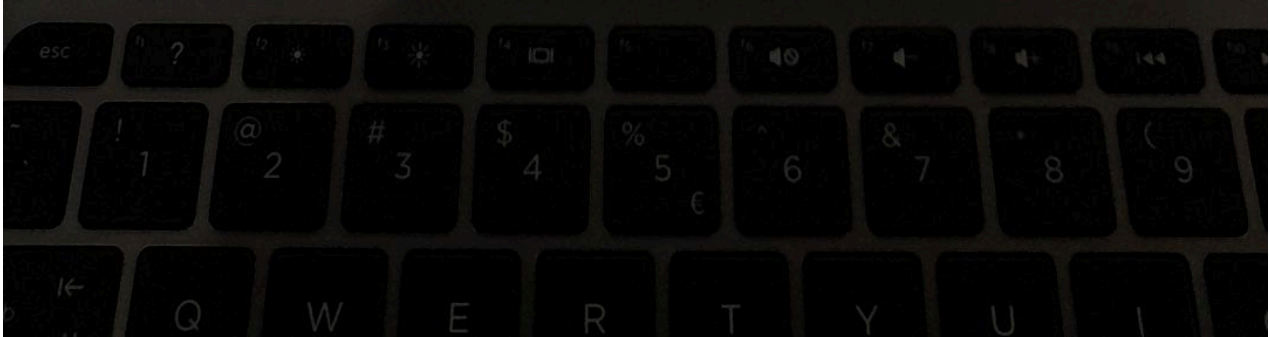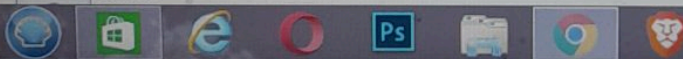
Slope of the regression line

x-intercept

y-intercept

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MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 8 of 10 (**Start time: 08:06:44 PM, 16 February 2022**)

If many data points are close to the mean, then the standard deviation is ------------.

Select the correct option

○ Middle value

○ Large

○ 0

Small

Question # 9 of 10 (Start time: 08:08:14 PM, 16 February 2022)

The rate of change along the regression line is called

Select the correct option

○ Slope

○ Curve

○ Non Linear regression

○ Linear regression

Ps

Question # 10 of 10 (Start time: 08:09:09 PM, 16 February 2022)

The method of least squares finds the best fit line that _____ the error between observed & estimated points on the line

Select the correct option

c) Reduces to zero

b) Minimizes

a) Maximizes

d) b & c

Quiz   ✕

→ C   🔒 vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=75f2de21-a84c-4796-bdd6-524f575054f4

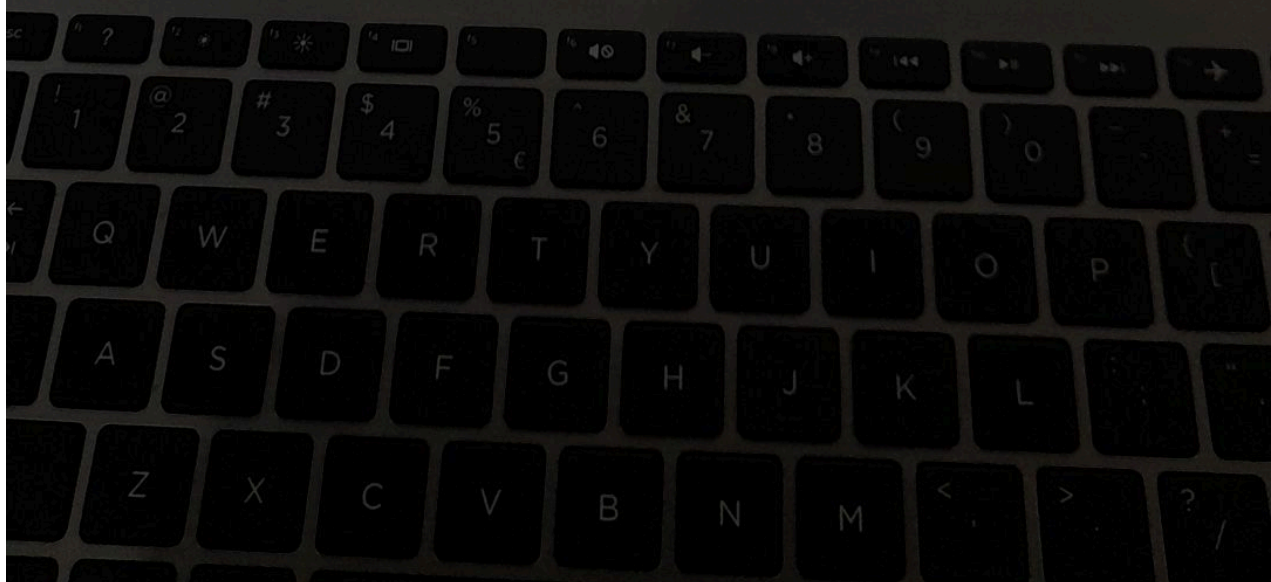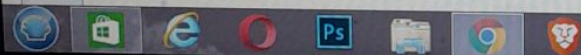Apps   W Kilns   Colloidal Silica Jn-3...   Progress in Investm...   SialGrowth   M Download Money...   Medafic – Premium...   G US7128

TH302 – Business Mathematics & Statistics (Quiz 03)

Question # 3 of 10 (Start time: 08:00:11 PM, 16 February 2022)

The following results were obtained from a simple regression analysis:

$y = 37.2895 - 1.2024\ X$

$r^2 = .6774\ s = .2934$

_____ is the proportion of the variation explained by the simple linear regression model

Select the correct option

○   0.6774

○   0.2934

○   -1.2024

   37.2895

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 2 of 10 (Start time: 07:59:19 PM, 16 February 2022)

The most common measure of central tendency which affected by extreme values is called......

Select the correct option

- Median

- Mode

- Mean

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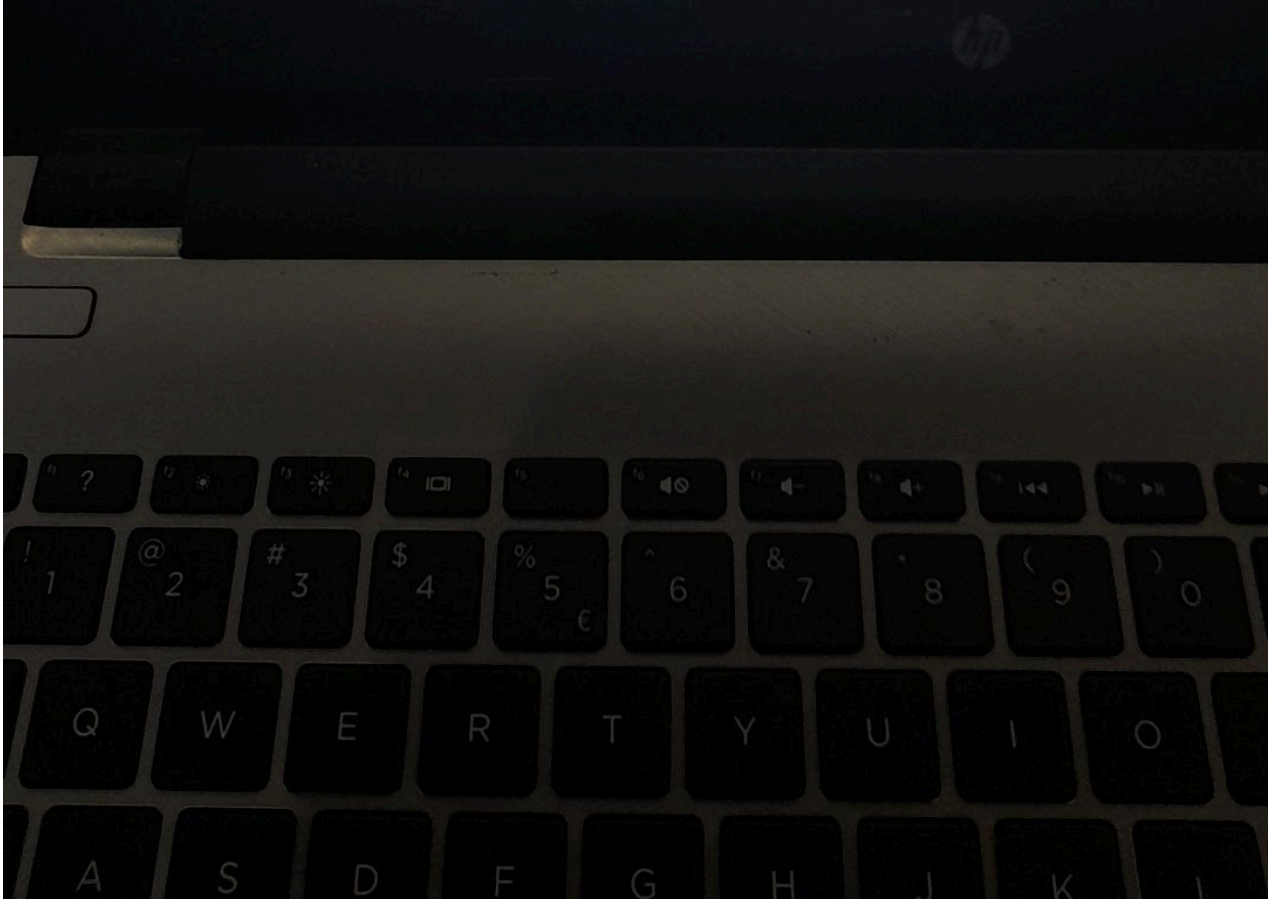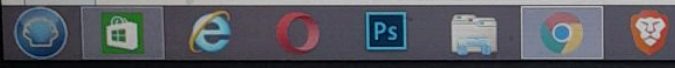
BC200410666: KINZA ARSHAD

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 1 of 10 (Start time: 07:58:07 PM, 16 February 2022)   Total Marks: 1

If the values of variables are increasing or decreasing in the same direction then such kind of correlation is referred as

Select the correct option

○ Zero Correlation

○ Positive Correlation

○ Perfect Correlation

LMS Quiz

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Question # 4 of 10 (Start time: 08:01:31 PM, 16 February 2022)

Variance or standard deviation can be zero only if

Select the correct option

○ all the values in the data are in ascending order

○ all the values in the data are unequal

○ all the values in the data form in descending order

○ all the values in the data are equal
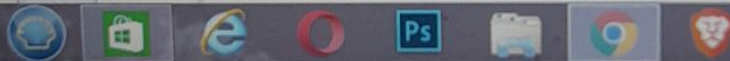
MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 3 of 10 (Start time: 10:43:43 PM, 16 February 2022)

As the relationship deteriorates from a perfect correlation, what happens to the points on a scatter diagram?

Select the correct option

○	The y-intercept changes.
○	The slope changes.
○	The slope and y-intercept both change
○	They become more scattered

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 4 of 10 (Start time: 10:44:59 PM, 16 February 2022)

The difference between the largest and smallest value in the given data is ......

Select the correct option

Interquartile range

Median

Mode

Range

MC210200826: SAIM SHERYAR

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 2 of 10 (Start time: 10:42:15 PM, 16 February 2022)

Which of the following statements is true regarding the standard deviation?

Select the correct option

○	All the given choices are correct
○	If it is zero, then all the data values are the same.
○	It is in the same units as the mean.
○	It cannot assume a negative value.

MC210200826: SAIM SHERYAR

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 7 of 10 (Start time: 10:48:34 PM, 16 February 2022)

Scatter plots are used only for quantitative variables.

Select the correct option

○ False

○ True

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 8 of 10 (Start time: 10:49:51 PM, 16 February 2022)

In excel ABS function returns the absolute value of a number.
What will be the result of the excel command =abs (-5)?

Select the correct option

5.1
-5
-5.1
5

Frahana, a 21 years old girl takes Mahira Khan as a role model and loses her weight to become thinner like her. She may suffer from:

Select the correct option

○	Other specified feeding and eating disorder
○	Avoidant/Restrictive Food Intake
○	Rumination
○	Anorexia nervosa

MC210200826: SAIM SHERYAR

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 10 of 10 (Start time: 10:52:35 PM, 16 February 2022)

The standard deviation cannot assume a negative value.

Select the correct option

	false
○	

	true
○	

Question # 3 of 10 (**Start time: 05:41:40 PM, 17 February 2022**)　　　　　　　　**Total Marks:** 1

The variance is calculated by squaring the standard deviation.

Select the correct option

○　False

○　True

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 05:43:11 PM, 17 February 2022)   **Total Marks:** 1

The coefficient of variation for a set of annual incomes is 18%; the coefficient of variation for the length of service with the company is 29%. What does this indicate?

Select the correct option

◯	Dispersion in the two distributions (income and service) cannot be compared using percents
◯	More dispersion in the distribution of the incomes compared with the dispersion of their length of service
◯	More dispersion in the lengths of service compared with income
◯	Dispersions are equal

Click to Save Answer & Move to Next Question

Question # 10 of 10 (**Start time: 05:51:51 PM, 17 February 2022**)   **Total Marks:** 1

The statement that the relative frequency can be converted into cumulative frequency by adding the current frequency to the previous total is

Select the correct option

True

False

Click to Save Answer & Move to Next Question

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Question # 6 of 10 (Start time: 05:45:59 PM, 17 February 2022)   **Total Marks: 1**

In regression analysis, when we plot the values of dependent and independent variables, the resulting set of points is called

Select the correct option

○ Venn diagram

○ Scatter Diagram

○ Pie Graph

○ Histogram

Click to Save Answer & Move to Next Question

5:44 PM
2/17/2022

Question # 1 of 10 (Start time: 05:54:21 PM, 17 February 2022)   **Total Marks:** 1

A scatterplot of a correlation of .80 would look most like a

Select the correct option

○	ellipse.
○	square.
○	circle.
○	straight line.

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 05:56:10 PM, 17 February 2022)

Scatterplots, like histograms, are a good visual means to understanding patterns of

Select the correct option

- univariate numerical data
- bivariate numerical data
- None of these
- Trivariate numerical data

Click to Save Answer & Mov

For a data, mean is equal to median then its distribution is

elect the correct option

○ asymmetrical

○ left asymmetrical

○ right asymmetrical

○ symmetrical

Click to Save Answ

Question # 4 of 10 (Start time: 05:58:32 PM, 17 February 2022)

Truncated mean is also called

Select the correct option

○ None of these

○ Arithmetic mean

○ Harmonic Mean

○ Trimmed mean

Click to Save Ar

Question # 5 of 10 (Start time: 05:44:42 PM, 17 February 2022)   **Total Marks:** 1

y = a + bx, is the equation of

Select the correct option

○	a) Correlation
○	d) Both a & b
○	c) Curve
○	b) Regression

Click to Save Answer & Move to Next Question

Question # 1 of 10 (Start time: 05:38:41 PM, 17 February 2022) Total Marks: 1

Slope of the line passing through the points A (2, 3) and B (3, 4) is

Select the correct option

- ◯ Zero
- ◯ Three
- ◯ One
- ◯ Two

Click to Save Answer & Move to Next Question

The average of the squared deviations, where deviations are taken from the mean is called.....

Select the correct option

- ◯ Average deviation
- ◯ Semi-inter quartile range
- ◯ Range
- ◯ Variance

Click to Save An

The intercept of a line passing through origin is

Select the correct option

- does not exists
- zero
- positive
- finite

MTH302 – Business Mathematics & Statistics (Quiz 03) Quiz Start Time: 05:54 PM, 17 February 20

Question # 8 of 10 (Start time: 06:03:07 PM, 17 February 2022) Total Mar

If the sample variance for a frequency distribution consisting of hourly wages was computed to be 10, what is the sample standard deviation?

Select the correct option

○ 4.67

○ 1.96

○ 10.00

○ 3.16

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 06:04:43 PM, 17 February 2022)   Ta

The variance is calculated by squaring the standard deviation.

Select the correct option

○ False

○ True

Click to Save Answer & Move to Next Q

Question # 6 of 10 (Start time: 06:00:39 PM, 17 February 2022)

If the correlation is negative perfect, what will be the value of r?

Select the correct option

○ -4

○ -3

○ -1

○ -2

Click to Sa

When there is no linear correlation between two variables, what will the value of r be?

Select the correct option

- ○ −1
- ○ 0
- ○ +1
- ○ a very small negative number

Click to Save Ans

Question # 1 of 10 (Start time: 06:16:46 PM, 17 February 2022)

Intuits follow which formal mechanism to settle disputes?

Select the correct option

○ Codified Laws

○ Social Intermediaries

○ Song Duets

○ Moots
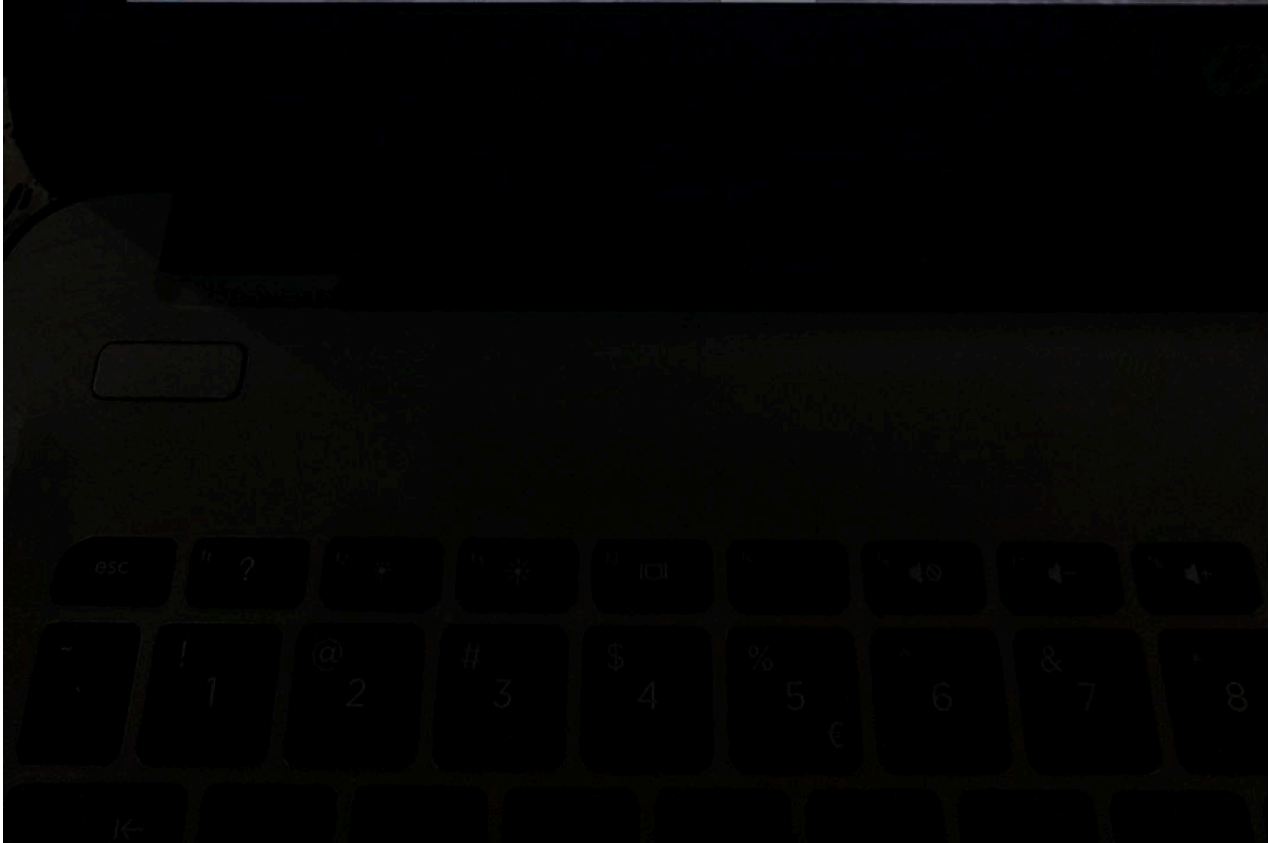
MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 2 of 10 (Start time: 06:30:01 PM, 17 February 2022)

The measurement of measure of degree of to which any two variables vary together is called

Select the correct option

◯	c)Both (a) and (b)
◯	a)Regression Coefficient
◯	b)Correlation
◯	d)None of these

Question # 5 of 10 (Start time: 06:35:09 PM, 17 February 2022)

The equation of the least squares line is
-28.13 + 1.12x
What is the predicted value of y when x = 1,000?

Select the correct option

○	-1148.13
○	28131.12
○	1091.87
○	-1091.87

Question # 8 of 10 (Start time: 07:22:53 PM, 17 February 2022)   **Total Marks:** 1

...... is the mean of inverse values.

Select the correct option

Harmonic mean

Geometric mean

Midhing

Arithmetic mean

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 07:24:33 PM, 17 February 2022)

Total Marks: 1

If there is a indirect relationship between rainfall & yield of crops then

Select the correct option

○ Yield is equal to rainfall

○ Yield is higher if rainfall is higher

○ Yield is higher if rainfall is less

○ Yield is lower if rainfall is less

Click to Save Answer & Move to Next Question

BC210204623: RABIA MANZOOR

Time Left 86 sec(s)

MTH302 - Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 07:59 PM, 17 February 2022

Question #10 of 10 (Start time: 08:13:30 PM, 17 February 2022)

Total Marks: 1

The syntax intercept (known y's, known x's) gives

Select the correct option

d) None of these

a) x- intercept

c) Both (a) and (b) are same

b) y- intercept

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 08:22:35 PM, 17 February 2022)

$y = a + bx$, is the equation of

Select the correct option

○	b) Regression
○	d) Both a & b
○	c) Curve
○	a) Correlation

Question # 3 of 10 (Start time: 08:23:33 PM, 17 February 2022)   **Total M**

In scatter diagram, correlation is called negative, if the value of the dependent variable decreases as the value of the independent variable increases.

Select the correct option

True

○

False

○

Activate Windows

Click to Save Answer & Move to Next Ques

Question # 4 of 10 (Start time: 08:24:53 PM, 17 February 2022)

Total Mark

The sum of squares of the deviations of the observed values from the regression line is

Select the correct option

○ zero

○ least or minimum

○ none of these

○ maximum

Click to Save Answer & Move to Next Question

Question # 5 of 10 (Start time: 08:25:40 PM, 17 February 2022)

Total Mark

A relationship between variables that can be represented by a straight line equation is

Select the correct option

Non linear regression model

Simple linear regression model

Population regression model

Non linear equation

Click to Save Answer & Move to Next Question

8:25 PM

Question # 1 of 10 (Start time: 08:21:50 PM, 17 February 2022)

Which of the following statements is true regarding the standard deviation?

Select the correct option

It is in the same units as the mean.

It cannot assume a negative value.

All the given choices are correct

If it is zero, then all the data values are the same.

Question # 9 of 10 (Start time: 08:30:25 PM, 17 February 2022)

The correlation between two variables measures the extent to which they are

Select the correct option

○	related with respect to effect.
○	causally related
○	associated
○	mutually exclusive

Question # 8 of 10 (Start time: 08:29:18 PM, 17 February 2022)

Total Ma

Mean deviation is always _____.

Select the correct option

○	negative
○	more than standard deviation
○	less then standard deviation
○	equal to standard deviation

Activate Windows

Total Marks: 1

If scores of openness to experience tend to be higher for students who have higher interest for adventure, which of the following is a reasonable correlation between openness to experience and interest for adventure?

Select the correct option

- −0.21
- −0.78
- +0.21
- +0.78

Click to Save Answer & Move to Next Question

8:28 PM

Question # 6 of 10 (Start time: 08:27:03 PM, 17 February 2022)

To

If the number of terms in the data are even then the median of the data is ....

Select the correct option

○	The average of 1st and 2nd quartiles
○	The average of smallest and largest
○	The average of two middle terms
○	The average of 1st and 3rd quartiles

Activate Windows

Question # 10 of 10 (Start time: 08:31:08 PM, 17 February 2022)

If many data points are close to the mean, then the standard deviation is ------------.

Select the correct option

○	Middle value
○	Large
○	0
○	Small

BC210202156: ABDUL GHANI

Time Left 88 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 08:39 PM, 17 February 2022

Question # 3 of 10 (Start time: 08:42:16 PM, 17 February 2022)   **Total Marks:** 1

The statement
"Mean does not get affected by the extreme values or outliers in the data"
is . . . .

Select the correct option

○ False

○ True

Click to Save Answer & Move to Next Question

Go to Settings to activate Windows.

Type here to search

7:42 AM
2/17/2022

Question #1 of 10 (Start time: 08:46:08 PM, 17 February 2022)

------------- measures the strength of the linear relationship between the dependent and the

Select the correct option

	Normal plot
○	
○	Simple correlation coefficient
○	Distance value
○	Y intercept

Which of the following correlation coefficients could be statistically significant?

Select the correct option

0.12

- 45

0.34

All of these

The standard deviation cannot assume a negative value.

Select the correct option

○	true
○	false

BC210412818: AMINA IQBAL

Time

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 08:53 PM, 17 Fe

Question # 2 of 10 (Start time: 08:54:24 PM, 17 February 2022)

There are two graphs G1 and G2. The graph G1 has $r = 0.9$ and the graph G2 has $r = 0.5$, then what result do you take out from it?

Select the correct option

○ G1 is more scattered than G2.

○ G1 is less scattered than G2.

○ G1 and G2 are equally scattered.

○ No result can be drawn from the given data.

Click to Save Answer & Move to Next

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 1 of 10 (Start time: 09:11:24 PM, 17 February 2022)

If sign of 'r' is negative then it indicates

Select the correct option

○ (b) Indirect relationship between X & Y

○ (a) Direct relationship between X & Y

○ (d) b or c

○ (c) X & Y equal

Q Search...   ▶   ☰   🏠

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 2 of 10 (Start time: 09:13:17 PM, 17 February 2022)

The mean of 3.5, 4.5, 6.5, 7.5 is ---------------

Select the correct option

○ 5.9

○ 5.7

○ 5

○ 5.5

Ms. Faiza calculated a correlation coefficient of .75. Which of the following reflects

elect the correct option

Strong negative

Weak negative

Strong positive

Weak positive

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 09:11 PM,

Question # 3 of 10 (Start time: 09:15:08 PM, 17 February 2022)

-------------- measures the strength of the linear relationship between the dependent and the independent variable.

Select the correct option

○ Normal plot

○ Y intercept

○ Distance value

○ Simple correlation coefficient

Click to Save Answer & Move to N

Q Search...

Only possibility of the comparison of variations of two data sets arise if

Select the correct option

	two data sets are homogeneous but may have different units
	neither two sets are homogeneous nor have the same units
	two data sets are homogeneous and have same units
	two data sets have the same unit of measurement but are

The sign of regression coefficient is associated with

Select the correct option

○	variance of x
○	co-variance of x and y
○	none of these
○	variance of y

Question # 4 of 10 (Start time: 09:16:44 PM, 17 February 2022)

In more dispersed (spread out) set of data

Select the correct option

○ standard deviation is greater

○ value of the mode is greater

○ Difference between mean and the median is greater

○ inter-quartile range is smaller

Question # 6 of 10 (Start time: 09:20:41 PM, 17 February 2022)

What does the slope of the linear regression line represent?

Select the correct option

- ○ Vertical distance from the line.

- ○ Horizontal distance between two points on the line.

- ○ Horizontal distance divided by vertical distance between two points on the line.

- ○ Rate of change of regression line.

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 09:20 PM, 17 February 2022

Question # 2 of 10 (Start time: 09:22:07 PM, 17 February 2022)

Total Marks:

Variance or standard deviation can be zero only if

Select the correct option

- all the values in the data are unequal

- all the values in the data are equal

- all the values in the data form in descending order

- all the values in the data are in ascending order

Question # 5 of 10 (Start time: 09:18:12 PM, 17 February 2022)

In simple linear regression one variable depend upon

Select the correct option

- ⦿ two dependent variables
- ◯ one dependent variable
- ◯ one independent variable
- ◯ one or more than one independent variables

▶

Search...

Question # 7 of 10 (Start time: 09:22:15 PM, 17 February 2022)

If the dependent variable increases with the independent variable then the coefficient of correlation is

Select the correct option

○ 0 to – 0.5

○ 0 to -2

○ 0 to 1

○ 0 to -1

Click to Save A

BC210405928: RUKHSAR

	Time Left	88 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)   Quiz Start Time: 09:20 PM, 17 February 2022

Question # 1 of 10 (Start time: 09:20:23 PM, 17 February 2022)   Total Marks: 1

Frequency Function calculates how often values occur within a range of values.

Select the correct option

○ False

○ True

Click to Save Answer & Move to Next Question

MTH302 - Business Mathematics & Statistics (Quiz 03)

The relationship between height and educational qualification

Select the correct option

○	The height is independent and education is dependent variable
○	There is inverse relationship between the two
○	There is direct relationship between the two
	The height is dependent and education is independent variable

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MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 4 of 10 (**Start time: 09:24:26 PM, 17 February 2022**)

If $y=2+0.6x$ then value of y-intercept is

Select the correct option

- 0.6

- 2

- 1.2

- 0

Type here to search

BC210419987: MUNAZZA ALTAF

MTH302 – Business Mathematics & Statistics (Quiz 03)   Quiz Start Time: 09:11 PM

Question # 8 of 10 (Start time: 09:23:45 PM, 17 February 2022)

The method of least squares finds the best fit line that _____ the error between observed & estimated points on the line

Select the correct option

- ○ b) Minimizes
- ○ c) Reduces to zero
- ○ a) Maximizes
- ○ d) b & c

Click to Save Answer & Move to

Search...

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 3 of 10 (Start time: 09:23:22 PM, 17 February 2022)

The sum of the deviations about the mean are always:

Select the correct option

	zero
○	the range
○	positive
	the standard deviation total

9:25 PM

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MTH302 – Business Mathematics & Statistics (Quiz 03)   Quiz Start Time: 0!

Question # 9 of 10 (Start time: 09:25:04 PM, 17 February 2022)

A scatter diagram:

Select the correct option

- d) Both a and b are correct

- b) Uses interval or ratio scale data.

- a) Is a graphic tool designed to portray the relationship between variable.

- c) Does not allow negative values.

Click to Save Answer & M

Q Search...

BC210419987: MUNAZZA ALTAF

MTH302 – Business Mathematics & Statistics (Quiz 03)   **Quiz Start Time: 09:11**

Question # 10 of 10 (Start time: 09:27:33 PM, 17 February 2022)

In excel ABS function returns the absolute value of a number.
What will be the result of the excel command =abs (–5)?

Select the correct option

○	5.1
○	5
○	–5.1
○	–5

Click to Save Answer & Move

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 7 of 10 (Start time: 09:27:42 PM, 17 February 2022)

What is the slope of the line y = -3.4x - 2.5?

Select the correct option

-3.4

3.4

-2.5

2.5

BC210405928: RUKHSAR

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 8 of 10 (Start time: 09:28:42 PM, 17 February 2022)

What do you mean of Measure of dispersion?

Select the correct option

○   d)None of these

○   a)Distances of every two distinct values

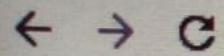○   b)Distances of mean from the values

c)Both (a) & (b)

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 10 of 10 (**Start time: 09:30:29 PM, 17 February 2022**)

Mode of a set of values can be . . . . . .

Select the correct option

◯	Exactly one
◯	More than one
◯	Three
	Two

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BC210405928: RUKHSAR

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 9 of 10 (Start time: 09:29:49 PM, 17 February 2022)

If the standard deviation of a population is 9, the population variance is:

Select the correct option

- ⃝   81

- ⃝   3

- ⃝   21

  9

BC210405488: JAVERIA SHAIKH   Time Left 88 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)   Quiz Start Time: 09:32 PM, 17 February 2022

Question # 1 of 10 (Start time: 09:32:55 PM, 17 February 2022)   Total Marks: 1

Which method helps to draw a line between the set of scattered points

Select the correct option

○ Least square method

○ Regression method

○ Least fit method

○ Correlation method

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 09:35:18 PM, 17 February 2022)   Total Marks:

If the graph is very much scattered, then what can be the suitable value of r?

Select the correct option

○ $r = -0.5$

○ $r = 0.1$

○ $r = -0.9$

○ $r = 0.8$

Click to Save Answer & Move to Next Question

BC210405488: JAVERIA SHAIKH

Time Left 86 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 09:32 PM, 17 February 2022

Question # 4 of 10 (Start time: 09:38:27 PM, 17 February 2022)

Total Marks:

The variance of the 3, 3, 3, 3, 3 is

Select the correct option

○ Half of the range

○ Zero

○ Twice the standard standard deviation

○ One

Click to Save Answer & Move to Next Question

As the relationship deteriorates from a perfect correlation, what happens to the points on a scatter diagram?

Select the correct option

○	The y-intercept changes.
○	They become more scattered.
○	The slope and y-intercept both change
○	The slope changes.

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 10:06:02 PM, 17 February 2022)   **Total Marks:**

For a data, mean < median then its distribution is

Select the correct option

symmetrical

left asymmetrical

right asymmetrical

asymmetrical

Click to Save Answer & Move to Next Question

Question # 4 of 10 (**Start time: 10:09:03 PM, 17 February 2022**)   **Total Marks:** 1

In a simple linear regression analysis, the correlation coefficient (r) and the slope (b1) have the same sign.

Select the correct option

○	Never
○	Most of the times
○	Sometimes
○	Always

Click to Save Answer & Move to Next Question

MTH302 - Business Mathematics & Statistics (Quiz 03)   Quiz Start Time: 10:04 PM, 17 February 2022

Question # 4 of 10 (Start time: 10:09:03 PM, 17 February 2022)   Total Marks: 1

In a simple linear regression analysis, the correlation coefficient (r) and the slope (b1) have the same sign.

Question # 3 of 10 (**Start time: 10:07:22 PM, 17 February 2022**) **Total Marks:** 1

If the value of r = 0, then there will be a perfect correlation between two variables.

Select the correct option

○ true

○ false

Click to Save Answer & Move to Next Question

MC180203277: MUHAMMAD DANISH KHAN

Time Left 88 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 11:22 PM, 17 February 2022

Question # 2 of 10 (Start time: 11:24:57 PM, 17 February 2022)

Total Marks: 1

In scatter diagram, correlation is called positive, if _____

Select the correct option

○	None of the above.
○	The value of the dependent variable increases as the value of the independent variable increases.
○	The value of the dependent variable decreases as the value of the independent variable increases.
○	The value of the dependent variable increases as the value of the independent variable decreases.

Click to Save Answer & Move to Next Question

MC180203277: MUHAMMAD DANISH KHAN

Time Left 89 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 11:22 PM, 17 February 2022

Question # 5 of 10 (Start time: 11:30:56 PM, 17 February 2022)   Total Marks: 1

If the sample variance for a frequency distribution consisting of hourly wages was computed to be 10, what is the sample standard deviation?

Select the correct option

○ $4.67

○ $3.16

○ $10.00

○ $1.96

Click to Save Answer & Move to Next Question

If the estimating equation is Y = a − b X, which of the following is true

Select the correct option

all of these

Slope of line is positive

There is inverse relationship

The y intercept is b

Click to Save

MC180203277: MUHAMMAD DANISH KHAN

Time Left 90 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 11:22 PM, 17 February 2022

Question # 4 of 10 (Start time: 11:29:38 PM, 17 February 2022)

Total Marks: 1

The square of the correlation coefficient is called the

Select the correct option

- ◯ coefficient of determination
- ◯ big R
- ◯ covariance
- ◯ variance

Click to Save Answer & Move to Next Question

MC180203277: MUHAMMAD DANISH KHAN

Time Left 90 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 11:22 PM, 17 February 2022

Question # 7 of 10 (**Start time: 11:33:19 PM, 17 February 2022**)   **Total Marks:** 1

Plot scatter diagram helps us in finding the relationship b/w

Select the correct option

- ○ Three variables
- ○ Median & Mode
- ○ Constant & a variable
- ○ Two variables

Click to Save Answer & Move to Next Question

Question # 6 of 10 (Start time: 11:32:34 PM, 17 February 2022)   Total Marks: 1

When a distribution consists of different observations then population standard deviation and sample standard deviation are relatively large

Select the correct option

○ True

○ False

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 11:27:26 PM, 17 February 2022)   Total Marks: 1

Measures of dispersion indicate the

Select the correct option

○ extent to which scores differ from one another.

○ central tendency of scores.

○ average score.

○ relationships between variables.

Click to Save Answer & Move to Next Question

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 8 of 10 (Start time: 11:31:59 PM, 19 February 2022)

A scatter diagram:

Select the correct option

◯	a) Is a graphic tool designed to portray the relationship between v
◯	b) Uses interval or ratio scale data.
◯	d) Both a and b are correct
◯	c) Does not allow negative values.

Question # 4 of 10 (**Start time: 11:34:54 PM, 19 February 2022**)

If the regression line: Y= 3+5X meets the x-axis at '8' unit from the origin then the value of y-intercept is

Select the correct option

- 8
- -37
- 43
- -8

Click to Save A

Summary statistics for two samples of data are
Sample 1:   mean= 19   variance= 10
Sample 2:   mean= 10   variance= 19
Which sample has the more spread of observations?

Select the correct option

○ There is not enough information to answer the question

○ Sample 2 has more spreadness

○ Neither; they have the same spread

○ Sample 1 has more spreadness

Q Search...

Question # 8 of 10 (Start time: 11:42:19 PM, 19 February 2022)

The statement
"Median does not get affected by extreme values or outliers in the data"
is . . .

Select the correct option

○ False

◉ True

Click to Save Answ

Question # 7 of 10 (Start time: 11:45:34 PM, 19 February 2022)   Total Marks: 1

The sum of deviations from mean is ....

Select the correct option

○ 2

○ 1

○ −1

○ 0

Click to Save Answer & Move to Next Question

MC200401882: ASIM HUSSAIN ZAHID

Time Left 88 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 11:52 PM, 19 February 2022

Question # 2 of 10 (Start time: 11:53:06 PM, 19 February 2022)

Total Marks: 1

The formula for finding the geometric mean of the data

$$(X_1, X_2, X_3, \ldots, X_n)$$

is given by ....

Select the correct option

Reload Math Equations

○ $$\bar{X} = \frac{X_1 \times X_2 \times X_3 \times \ldots \times X_n}{n}$$

○ $$\bar{X} = (X_1 \times X_2 \times X_3 \times \ldots \times X_n)^{1/n}$$

○ $$\bar{X} = (X_1 + X_2 + X_3 + \ldots + X_n)^{1/n}$$

○ $$\bar{X} = (X_1 \times X_2 \times X_3 \times \ldots \times X_n)^{n}$$

Click to Save Answer & Move to Next Question

Question # 5 of 10 (Start time: 11:55:50 PM, 19 February 2022)　　Total Marks: 1

Ms. Christian calculated a correlation coefficient of .75. Which of the following reflects the best interpretation of this?

Select the correct option

○ Strong negative.

○ Strong positive.

○ Weak positive.

○ Weak negative.

Click to Save Answer & Move to Next Question

MC200401882: ASIM HUSSAIN ZAHID

Time Left **88** sec(s)

MTH302 - Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 11:52 PM, 19 February 2022

Question # 6 of 10 (Start time: 11:56:52 PM, 19 February 2022)   Total Marks: 1

In the equation $Y=2+3X$ the intercept is

Select the correct option

○	1
○	4
○	2
○	3

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 11:54:31 PM, 19 February 2022)   Total Marks: 1

The range of the data 2, 5,8, 9, 15,6, 7 is ....

Select the correct option

○	10
○	13
○	9
○	11

Click to Save Answer & Move to Next Question

MC200401881: SAJID SUBHANI

Time Left 88 sec(s)

MTH302 - Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 11:34 PM, 19 February 2022

Question # 10 of 10 (**Start time: 11:49:41 PM, 19 February 2022**)

Total Marks: 1

As the regression line equation is $y = ax + b$, where b is

Select the correct option

○	None of these
○	The x-intercept
○	The slope
○	The y-intercept

Click to Save Answer & Move to Next Question

BC20020612: NUMAIRA SADIA

MTH302 – Business Mathematics & Statistics (Quiz 03)   Quiz Start Ti

Question # 6 of 10 (Start time: 11:38:36 PM, 19 February 2022)

Variance or standard deviation can be zero only if

Select the correct option

○ all the values in the data are unequal

○ all the values in the data are equal

○ all the values in the data form in descending order

○ all the values in the data are in ascending order

Click to Save Answ

11:31 PM

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MTH302 - Business Mathematics & Statistics (Quiz 03)   Quiz Start Time: 11:29 PM, 1!

Question # 2 of 10 (Start time: 11:31:32 PM, 19 February 2022)

The minimum value of the correlation coefficient r can be

Select the correct option

○ −infinity

○ 0

○ −1

○ 1

Click to Save Answer & Move to N

BC190412001: MEHWISH RAMZAN

Time Left 88 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 11:20 PM, 19 February 2022

Question # 9 of 10 (Start time: 11:33:25 PM, 19 February 2022)

Total Marks: 1

The coefficient of variation for a set of annual incomes is 18%; the coefficient of variation for the length of service with the company is 29%. What does this indicate?

Select the correct option

○ More dispersion in the distribution of the incomes compared with the dispersion of their length of service

○ More dispersion in the lengths of service compared with income

○ Dispersion in the two distributions (income and service) cannot be compared using percents

○ Dispersions are equal

Click to Save Answer & Move to Next Question

MTH302 – Business Mathematics & Statistics (Quiz 03)

Question # 3 of 10 (Start time: 11:33:37 PM, 19 February 2022)

In the calculation of range from group data which of the following play important role?

Select the correct option

○ cumulative frequency

○ only largest value

○ both smallest & largest value

○ frequency

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BC190412001: MEHWISH RAMZAN

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 10 of 10 (Start time: 11:35:16 PM, 19 February 2022)

The syntax intercept (known y's, known x's) gives

Select the correct option

⚪	a)x- intercept
⚪	c)Both (a) and (b) are same
⚪	b)y- intercept
⚪	d)None of these

Standard deviation can be calculated by taking deviation from any measure of central tendency

Select the correct option

○ False

○ True

Cli

Time Left **89** sec(s)

Quiz Start Time: 11:34 PM, 19 February 2022

Question # 9 of 10 (Start time: 11:48:26 PM, 19 February 2022) Total Marks: 1

My estimated regression line is Y = 17 + 4X. The intercept is equal to:

Select the correct option

- 21
- 4
- 13
- 17

Click to Save Answer & Move to Next Question

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Question # 3 of 10 (Start time: 11:53:43 PM, 19 February 2022)   Total Marks: 1

Fifth decile for 10.1, 10.3, 10.5, 10.6, 10.7, 10.9 is approximately ....

Select the correct option

○	10.9
○	10.1
○	10.6
○	10.3

Click to Save Answer & Move to Next Question

Question # 7 of 10 (Start time: 11:58:01 PM, 19 February 2022)   Total Marks: 1

The intercept of a line passing through origin is

Select the correct option

○ zero

○ positive

○ finite

○ does not exists

Click to Save Answer & Move to Next Question

For the regression line: Y= -X + 5, y-intercept is

elect the correct option

○ -5

○ 5

○ -1

○ 1

Question # 6 of 10 (Start time: 11:28:20 PM, 19 February 2022)

If Sx = 2.56, Sy = 15.91, Sxy = 29.59, then correlation Coefficient is

Select the correct option

○ 0.649

○ 0.3880

○ 0.7265

○ .6744

MTH302 - Business Mathematics & Statistics (Quiz 03)

Question # 1 of 10 (Start time: 11:29:45 PM, 19 February 2022)

Which of the following is not a necessary condition for regression analysis?

Select the correct option

○ The Y values are independent.

○ The slope of the regression line is positive (increasing).

○ For each X value, there is a group of Y values and these Y values are normally distribute

○ The standard deviation of each of the conditional distributions must be the same.

If sx=2, sy = 4 and sxy =10 then correlation r is

Select the correct option

- ○ 1.25
- ○ 0.80
- ○ 1.12
- ○ 3.54

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Question # 10 of 10 (**Start time: 05:47:50 PM, 15 February 2022**)   **Total Marks:** 1

If a set of bivariate data (of two variables) is traced in XY-plane and this scattered plot is approximated to get a straight line: $(x/2)+(y/3)+1= 0$. Then its slope is

Select the correct option

○ 3/2

○ 1/2

○ 1/3

○ −3/2

Click to Save Answer & Move to Next Question

BC200409829: BUSHRA TABASSUM

Time Left 86 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 05:34 PM, 15 February 2022

Question # 9 of 10 (Start time: 05:46:42 PM, 15 February 2022)

Total Marks: 1

On the basis of data, we wish to estimate the value of variable Y corresponding to a given value of variable X. It can be accomplished by estimating the value of Y from a type of curve that fits the sample data. This type of curve is called

Select the correct option

○ Regression curve

○ Ogive curve

○ Scatter curve

○ Least square curve

Click to Save Answer & Move to Next Question

vulms.vu.edu.pk/Quiz/QuizQ

Question # 8 of 10 (Start time: 05:45:49 PM, 15 February 2022)   **Total Marks:** 1

Which of the following can never be negative

Select the correct option

○ None of the given choice

○ Variance but not Standard deviation

○ Standard deviation but not Variance

○ Both standard deviation and Variance

Click to Save Answer & Move to Next Question

MTH302 – Business Mathematics & Statistics (Quiz 03)   Quiz Start Time: 05:3

Question # 7 of 10 (Start time: 05:43:01 PM, 15 February 2022)

In the equation Y=2+3X the intercept is

Select the correct option

- 2
- 4
- 3
- ● 1

Click to Save Answer & Mo

Question # 6 of 10 (Start time: 05:41:22 PM, 15 February 2022)   Total Marks: 1

X	Y
3	6
5	8
7	11
9	14
11	16

Select the correct option

○ $x = 0$

○ $x = 1$

○ $x = 1.3$

○ $x = 2$

Click to Save Answer & Move to Next Question

BC200409829: BUSHRA TABASSUM

MTH302 – Business Mathematics & Statistics (Quiz 03)

Time Left **88** sec(s)

Quiz Start Time: 05:34 PM, 15 February 2022

Question # 5 of 10 (Start time: 05:40:13 PM, 15 February 2022)   Total Marks: 1

Analysis of Variance (ANOVA) is a test for equality of:

Select the correct option

○	only two parameters
○	variances
○	proportions
○	means

Click to Save Answer & Move to Next Question

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Time Left 88 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 05:34 PM, 15 February 2022

Question # 4 of 10 (Start time: 05:38:32 PM, 15 February 2022)

Total Marks: 1

A scatter diagram:

Select the correct option

○	B) Uses interval or ratio scale data.
○	A) Is a graphic tool designed to portray the relationship between variable.
○	C) Does not allow negative values.
○	D) Both A and B are correct

Click to Save Answer & Move to Next Question

vulms.vu.edu.pk/Quiz/QuizQ

Time Left 88 sec(s)

MTH302 – Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 05:34 PM, 15 February 2022

Question # 3 of 10 (Start time: 05:37:35 PM, 15 February 2022)

Total Marks: 1

Which of the following correlation coefficients represents the weakest correlation between two variables?

Select the correct option

○ 0.15

○ -0.15

○ 0.02

○ -1.00

Click to Save Answer & Move to Next Question

BC200409829: BUSHRA TABASSUM

Time Left 88 sec(s)

MTH302 - Business Mathematics & Statistics (Quiz 03)

Quiz Start Time: 05:34 PM, 15 February 2022

Question # 2 of 10 (Start time: 05:36:32 PM, 15 February 2022)

Total Marks: 1

Positive square root of the squared deviations of the values of a variance from their mean value is called.......

Select the correct option

○	Variance
○	Standard deviation
○	Semi-inter quartile range
○	Average deviation

Click to Save Answer & Move to Next Question

Question # 1 of 10 (Start time: 05:34:53 PM, 15 February 2022)   Total Marks: 1

For a data, if mean > median then its distribution is

Select the correct option

○ symmetrical

○ asymmetrical

○ left asymmetrical

○ right asymmetrical

Click to Save Answer & Move to Next Question