



BC190408973: HAMZA JAMIL

STAT404 - Regression and Correlation (Quiz 1)

Question # 2 of 10 (Start time: 09:00:15 PM, 28 December 2021)

Which of the following values could not represent a correlation coefficient?

Select the correct option

- | | |
|----------------------------------|-------------|
| <input type="radio"/> | $r = -0.73$ |
| <input type="radio"/> | $r = 0.99$ |
| <input type="radio"/> | $r = -1.0$ |
| <input checked="" type="radio"/> | $r = 1.09$ |





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STAT404 – Regression and Correlation (Quiz 1)

Question # 1 of 10 (Start time: 08:59:53 PM, 28 December 2021)

If the movement of two variables is independent from each other than there is

Select the correct option

- No correlation
- Negative correlation
- Positive correlation
- Positive and normal correlation





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STAT404 - Regression and Correlation (Quiz 1)

Question # 3 of 10 (Start time: 09:00:31 PM, 28 December 2021)

We can apply the rank correlation

Select the correct option



when ranks are in descending order only.



when ranks are in any order.



when ranks are in alphabetical order only.



when ranks are in acceding order only.





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STAT404 - Regression and Correlation (Quiz 1)

Question # 4 of 10 (Start time: 09:00:49 PM, 28 December 2021)

A perfect negative correlation is signified by

Select the correct option

<input checked="" type="radio"/>	-1
<input type="radio"/>	1
<input type="radio"/>	0.5
<input type="radio"/>	0



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STAT404 - Regression and Correlation (Quiz 1)

Question # 5 of 10 (Start time: 09:01:03 PM, 28 December 2021)

The correlation coefficient between $U = X$ and $V = -X$ is

Select the correct option

- | | |
|----------------------------------|-----|
| <input type="radio"/> | 0.5 |
| <input type="radio"/> | 0 |
| <input checked="" type="radio"/> | -1 |
| <input type="radio"/> | +1 |



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STAT404 - Regression and Correlation (Quiz 1)

Question # 6 of 10 (Start time: 09:01:13 PM, 28 December 2021)

It is named as multiple regression because there are

Select the correct option

- | | |
|----------------------------------|--------------------------------|
| <input checked="" type="radio"/> | multiple independent variables |
| <input type="radio"/> | multiple coefficients |
| <input type="radio"/> | multiple constants |
| <input type="radio"/> | multiple dependent variables |





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STAT404 - Regression and Correlation (Quiz 1)

Question # 7 of 10 (Start time: 09:01:25 PM, 28 December 2021)

How many dependent variable(s) may appear in a multiple regression?

Select the correct option

- 2
- 1
- 0
- 3





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STAT404 - Regression and Correlation (Quiz 1)

Question # 8 of 10 (Start time: 09:01:38 PM, 28 December 2021)

The method of measuring rank correlation was developed by

Select the correct option

<input type="radio"/>	Fisher
<input type="radio"/>	Wilcoxon
<input type="radio"/>	Karl Pearson
<input checked="" type="radio"/>	Spearman



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STAT404 - Regression and Correlation (Quiz 1)

Question # 9 of 10 (Start time: 09:01:49 PM, 28 December 2021)

For which correlation type, there is no need for any assumption.

Select the correct option

<input type="radio"/>	Partial correlation coefficient
<input checked="" type="radio"/>	Simple correlation coefficient
<input type="radio"/>	Rank correlation coefficient
<input type="radio"/>	Multiple correlation coefficient

**Question # 10 of 10 (Start time: 09:02:20 PM, 28 December 2021)**

If two variables oppose each other then the correlation will be

Select the correct option

- | | |
|----------------------------------|----------------------|
| <input checked="" type="radio"/> | Negative Correlation |
| <input type="radio"/> | Zero Correlation |
| <input type="radio"/> | Perfect Correlation |
| <input type="radio"/> | Positive Correlation |





BC190203902: IFRAHEEM HUSSAIN

Time Left 81 sec(s)

STAT404 - Regression and Correlation (Quiz 1)

Quiz Start Time: 09:31 PM, 28 December 2021

Question # 1 of 10 (Start time: 09:31:35 PM, 28 December 2021)

Total Marks: 1

With only one variable, and no other information, the best prediction for the next measurement is the _____ of values itself.

Select the correct option

- maximum
- mean
- regression
- sample

Click to Save Answer & Move to Next Question



**Question # 2 of 10 (Start time: 09:31:47 PM, 28 December 2021)**

It is named as multiple regression because there are

Select the correct option

- | | |
|----------------------------------|--------------------------------|
| <input type="radio"/> | multiple coefficients |
| <input checked="" type="radio"/> | multiple independent variables |
| <input type="radio"/> | multiple constants |
| <input type="radio"/> | multiple dependent variables |





BC190203902: IFRAHEEM HUSSAIN

STAT404 - Regression and Correlation (Quiz 1)

Question # 3 of 10 (Start time: 09:31:59 PM, 28 December 2021)

The difference between best-fit line and observed value is called _____ .

Select the correct option

<input type="radio"/>	Slop
<input checked="" type="radio"/>	Residual
<input type="radio"/>	Degree of freedom
<input type="radio"/>	Intercept



BC190203902: IFRAHEEM HUSSAIN

STAT404 - Regression and Correlation (Quiz 1)

Question # 4 of 10 (Start time: 09:32:15 PM, 28 December 2021)

The correlation coefficient between $U = X$ and $V = -X$ is

Select the correct option

- | | |
|----------------------------------|-----|
| <input type="radio"/> | +1 |
| <input type="radio"/> | 0.5 |
| <input checked="" type="radio"/> | -1 |
| <input type="radio"/> | 0 |



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STAT404 - Regression and Correlation (Quiz 1)

Quiz Start Time: 09:31 PM, 28

Question # 5 of 10 (Start time: 09:32:25 PM, 28 December 2021)

In multiple regression having two independent variables, what will be the total number of normal equation?

Select the correct option

- 2
- 4
- 3
- 1

Click to Save Answer & Move to N





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STAT404 - Regression and Correlation (Quiz 1)

Question # 6 of 10 (Start time: 09:32:41 PM, 28 December 2021)

If X and Y are independent to each other, the coefficient of correlation is

Select the correct option

- 1
- +1
- 0
- 0.5

Click





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STAT404 - Regression and Correlation (Quiz 1)

Question # 7 of 10 (Start time: 09:32:59 PM, 28 December 2021)

A perfect negative correlation is signified by

Select the correct option

- 1
- 0.5
- 0
- 1





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STAT404 - Regression and Correlation (Quiz1)

Question # 8 of 10 (Start time: 09:33:13 PM, 28 December 2021)

Which of the following would not allow you to calculate a correlation?

Select the correct option

- | | |
|----------------------------------|--|
| <input type="radio"/> | a negative relationship between X and Y |
| <input type="radio"/> | a positive relationship between X and Y |
| <input checked="" type="radio"/> | a curvilinear relationship between X and Y |
| <input type="radio"/> | a linear relationship between X and Y |

Click t





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STAT404 - Regression and Correlation (Quiz 1)

Question # 9 of 10 (Start time: 09:33:28 PM, 28 December 2021)

The assumptions of regression model can be abbreviated as LINE which stands for

Select the correct option

- Linear, Independent, Normal, Equal variance
- Linear, Independent, Negative, Estimated variance
- Logical, Independent, Normal, Equal mean
- Least, Independent, Normal, Equal variance

Click to





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STAT404 - Regression and Correlation (Quiz 1)

Question # 10 of 10 (Start time: 09:33:51 PM, 28 December 2021)

$$\{ \text{In multiple regression } \} Y = a + b_1 X_1 + b_2 X_2 + e, \{ \text{the } X\text{s are known as:} \}$$

Select the correct option

- | | |
|----------------------------------|----------------------|
| <input checked="" type="radio"/> | Independent variable |
| <input type="radio"/> | Normal variable |
| <input type="radio"/> | Multiple variable |
| <input type="radio"/> | Dependent variable |





STAT404 - Regression and Correlation (Quiz 1)

Question # 1 of 10 (Start time: 09:38:04 PM, 28 December 2021)

\[
{\text{In multiple regression }}Y = \alpha + b_1 X_1 + b_2 X_2 + e, {\text{ the Xs are known as:}}
\]

Select the correct option

- | | |
|----------------------------------|----------------------|
| <input type="radio"/> | Dependent variable |
| <input checked="" type="radio"/> | Independent variable |
| <input type="radio"/> | Multiple variable |
| <input type="radio"/> | Normal variable |



BC190407427: WAQAS ALI

STAT404 - Regression and Correlation (Quiz 1)

Question # 2 of 10 (Start time: 09:38:17 PM, 28 December 2021)

In regression and correlation, "error" values are also called:

Select the correct option

<input checked="" type="radio"/>	Residuals
<input type="radio"/>	Restrictions
<input type="radio"/>	Observations
<input type="radio"/>	Variations



BC190407427: WAQAS ALI

STAT404 - Regression and Correlation (Quiz 1)

Question # 3 of 10 (Start time: 09:38:34 PM, 28 December 2021)

If the movement of two variables is independent from each other than there is

Select the correct option

- | | |
|----------------------------------|---------------------------------|
| <input checked="" type="radio"/> | No correlation |
| <input type="radio"/> | Positive and normal correlation |
| <input type="radio"/> | Positive correlation |
| <input type="radio"/> | Negative correlation |

Click





BC190407427: WAQAS ALI

STAT404 - Regression and Correlation (Quiz1)

Question # 4 of 10 (Start time: 09:38:45 PM, 28 December 2021)

Sales of a company depends on

Select the correct option

- | | |
|----------------------------------|-------------------------|
| <input type="radio"/> | Advertisement |
| <input type="radio"/> | Demand |
| <input checked="" type="radio"/> | All of the given option |
| <input type="radio"/> | Price |





BC190407427: WAQAS ALI

STAT404 - Regression and Correlation (Quiz 1)

Quiz Start Time:

Question # 5 of 10 (Start time: 09:38:54 PM, 28 December 2021)

In multiple regression $Y = a + b_1X_1 + b_2X_2$; the variable Y is known as :

Select the correct option

- | | |
|----------------------------------|----------------------|
| <input type="radio"/> | Multiple variable |
| <input type="radio"/> | Independent variable |
| <input type="radio"/> | Normal variable |
| <input checked="" type="radio"/> | Dependent variable |

Click to Save Answer



Question # 6 of 10 (Start time: 09:39:07 PM, 28 December 2021)

How many dependent variable(s) may appear in a multiple regression?

Select the correct option

- 1
- 0
- 3
- 2

Click



**Question # 7 of 10 (Start time: 09:39:20 PM, 28 December 2021)**

Which of the following equation shows the correct form of the partitioning of variations?

Select the correct option

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> | $SSR = SSA + SSB$ |
| <input type="radio"/> | $SSR = SST + SSE$ |
| <input type="radio"/> | $SST = SSR - SSE$ |
| <input checked="" type="radio"/> | $SST = SSR + SSE$ |





BC190407427: WAQAS ALI

STAT404 - Regression and Correlation (Quiz 1)

Question # 8 of 10 (Start time: 09:39:38 PM, 28 December 2021)

The method of measuring rank correlation was developed by

Select the correct option

- | | |
|----------------------------------|--------------|
| <input checked="" type="radio"/> | Spearman |
| <input type="radio"/> | Fisher |
| <input type="radio"/> | Wilcoxon |
| <input type="radio"/> | Karl Pearson |





BC190407427: WAQAS ALI

STAT404 - Regression and Correlation (Quiz 1)

Question # 9 of 10 (Start time: 09:39:47 PM, 28 December 2021)

If X and Y are independent to each other, the coefficient of correlation is

Select the correct option

- | | |
|----------------------------------|-----|
| <input type="radio"/> | +1 |
| <input type="radio"/> | -1 |
| <input checked="" type="radio"/> | 0 |
| <input type="radio"/> | 0.5 |





BC190407427: WAQAS ALI

STAT404 - Regression and Correlation (Quiz 1)

Question # 10 of 10 (Start time: 09:39:58 PM, 28 December 2021)

Which of the following would not allow you to calculate a correlation?

Select the correct option

- | | |
|----------------------------------|--|
| <input type="radio"/> | a negative relationship between X and Y |
| <input type="radio"/> | a linear relationship between X and Y |
| <input type="radio"/> | a positive relationship between X and Y |
| <input checked="" type="radio"/> | a curvilinear relationship between X and Y |

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