National Testing Agency

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Yes

Predictive Analytics

Group Number: Group Id: 940918121 **Group Maximum Duration:** 0 **Group Minimum Duration:** 120 **Show Attended Group?:** No **Edit Attended Group?:** No Break time: 0 100 **Group Marks:** Is this Group for Examiner?: No

Display Marks:

Predictive Analytics-1

Section Id: 940918177
Section Number: 1
Section type: Online

Mandatory or Optional: Mandatory

Number of Questions: 50

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Section Marks: 100

Enable Mark as Answered Mark for Review and

Clear Response:

Yes

Sub-Section Number: 1

Sub-Section Id: 940918242

Question Shuffling Allowed : Yes

Question Number: 1 Question Id: 9409187991 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Refer Linear Regression Model Output to answer this question. Which of the following statements about model 1 is incorrect?

- 1. The model explains 42.25% of variation in box office collection
- 2. There are outliers in the model
- 3. The residuals follow a normal distribution
- 4. Box office collection increases as the budget increases

Options:

94091829937.1

94091829938. 2

94091829939.3

94091829940.4

Question Number: 2 Question Id: 9409187992 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Refer Linear Regression Model Output to answer this question. The value of the constant in table 3 is negative (-8.354). So, we can conclude that _____

- 1. The model is incorrect, since the box office collection cannot be negative
- 2. The value of the constant is negative due to heteroscedastcity
- 3. The revenue is negative because the production house may have paid theaters money to release the movie
- Regression model cannot be extrapolated, so the value of constant should be incorporated only within the range of budget that was used for developing the model

Options:

94091829941.1

94091829942. 2

94091829943.3

94091829944.4

Question Number: 3 Question Id: 9409187993 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Refer Linear Regression Model Output to answer this question. What is the average difference in the box office collection when a movie is released during a holiday season (Releasing_Time_holiday_season) versus movies released during normal season (Releasing_Time_Normal_Season)? Use model 2 to answer this question and a significance value of 5%

- 1. 1.15 Crores
- 2. 16.97 Crores
- 3. No difference
- 4. 2.32 Crores

Options:

94091829945.1

94091829946. 2

94091829947.3

94091829948.4

Question Number: 4 Question Id: 9409187994 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Refer Linear Regression Model Output to answer this question. What is the variation in response variable, In(Box office collection), explained by the model after adding all 6 variables?

- 1.0.6669
- 2. 0.8202
- 3. 0.706
- 4. 0.4242

Options:

94091829949.1

94091829950.2

94091829951.3

94091829952.4

Question Number: 5 Question Id: 9409187995 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Refer Linear Regression Model Output to answer this question. Which factor has the least impact on the box office collection of a movie?

- 1. Music_Dir_Cat C
- 2. Director_Cat C
- 3. YouTube Views
- 4. Genre Comedy

Options:

94091829953.1

94091829954. 2

94091829955.3

94091829956.4

Question Number: 6 Question Id: 9409187996 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Refer Linear Regression Model Output to answer this question. Among the variables in Table 6, which variable is not useful for practical application of the model?

- 1. Budget_35_Crore
- 2. YouTube Views
- 3. Genre Comedy
- 4. Music Director Cat C

Options:

94091829957.1

94091829958.2

94091829959.3

94091829960.4

Question Number: 7 Question Id: 9409187997 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

- 1. Average salary of female employees is higher than male employees
- 2. Female employees earn 3000.90 more than male employees
- Increase in salary with work experience for male employees is higher than female employees
- 4. In the long run, male employees earn more than female employees

Options:

94091829961.1

94091829962.2

94091829963.3

94091829964.4

Question Number: 8 Question Id: 9409187998 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Refer Logistic Regression Model Output to answer this question. Which of the following statements is incorrect about the model in tables 1 and 2?

- 1. Sensitivity is higher than specificity at a classification cut-off probability of 0.7
- 2. Sensitivity is higher than specificity
- 3. Probability of accepting the offer is more for those candidates who are willing to work in shifts
- 4. Probability of acceptance of job offer is more for female candidates than male candidates

Options:

94091829965.1

94091829966, 2

94091829967.3

94091829968.4

Question Number: 9 Question Id: 9409187999 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Refer Logistic Regression Model Output to answer this question. The Probability of a female candidate willing to work in shifts is _____

- 1. 0.6357
- 2. 0.5319
- 3. 0.5914
- 4. 0.7413

Options:

94091829969.1

94091829970. 2

94091829971.3

94091829972.4

Question Number: 10 Question Id: 9409188000 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Refer Logistic Regression Model Output to answer this question. Which interview type increases the probability of accepting job offer?

- 1. Online test
- 2. Face to Face Interview
- 3. Telephone Interview
- 4. None of them

Options:

94091829973.1

94091829974. 2

94091829975.3

94091829976.4

Question Number: 11 Question Id: 9409188001 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Refer Logistic Regression Model Output to answer this question. Among the following 4 customers who is most likely to join? Note: PerHike value is 10 for 10%

- 1. 10 years of work experience, 10% hike in CTC, face to face interview and not willing to work in Shift
- 2. 2 years of work experience, 20% hike in CTC, online test and willing to work in Shift
- 3. 5 years of work experience, 15% hike in CTC, Telephone interview and not willing to work in Shift
- 4. 6 years of work experience, 0% hike in CTC, face to face interview and willing to work in Shift

Options:

94091829977.1

94091829978. 2

94091829979.3

94091829980.4

Question Number: 12 Question Id: 9409188002 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Refer Decision Tree Model Output to answer this question. Which of the following statement is correct?

- 1. Housing loan and subscription to term deposit are statistically independent
- 2. Housing loan and subscription to term deposit are statistically dependent
- 3. In a CHAID tree, the variable "housing loan" will not be selected for splitting the node
- 4. The probability of subscription to term deposit increases when the customer has taken a housing loan

Options:

94091829981.1

94091829982. 2

94091829983.3

94091829984.4

Question Number: 13 Question Id: 9409188003 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Refer Decision Tree Model Output to answer this question. Using CHAID tree we can conclude that _____

- 1. When there is no previous customer contact and the customer has taken a housing loan then there is a 93% chance that the customer will subscribe to the term deposit
- 2. When there is no previous customer contact and the customer has taken a housing loan then there is a 93% chance that the customer will NOT subscribe to the term deposit
- 3. Variables other than "previous" and "housing loan" are not statistically significant
- 4. The customers who have been contacted previously are less likely to respond to the marketing campaign compared to those who were not contacted before

Options:

94091829985.1

94091829986. 2

94091829987.3

94091829988.4

Question Number: 14 Question Id: 9409188004 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

fluctuation from the trend line?
1. Q1 2. Q2 3. Q3 4. Q4
Options:
94091829989. 1
94091829990. 2
94091829991. 3
94091829992. 4
Question Number : 15 Question Id : 9409188005 Question Type : MCQ Option Shuffling : No Is
Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0
Refer Forecasting Model Output to answer this question. The forecasted demand for Q1 of 2016 using AR(1) model is
1. 98.39
2. 115.32
3. 149.04 4. 174.68
Options:
94091829993. 1
94091829994. 2
94091829995. 3
94091829996. 4
Question Number : 16 Question Id : 9409188006 Question Type : MCQ Option Shuffling : No Is
Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Refer Unstructured Data Analysis model output to answer this question. The probability of finding word 1 given the document is positive is _____

- 1.4/8
- 2.6/16
- 3.6/8
- 4. 4/16

Options:

94091829997.1

94091829998. 2

94091829999.3

94091830000.4

Question Number: 17 Question Id: 9409188007 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Refer Unstructured Data Analysis model output to answer this question. A Bernoulli document model is used to convert a comment about a product into a binary vector and is given by: [0, 1, 0, 0, 0, 1]. Which of the following statements is incorrect?

- 1. The vocabulary set has 8 words
- 2. Three words from the vocabulary set are present in the comment
- 3. The comment is a positive comment
- 4. The vocabulary set has more than 5 words

Options:

94091830001.1

94091830002. 2

94091830003.3

94091830004.4

Question Number: 18 Question Id: 9409188008 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

The best simple linear regression model is the one for which ____

- 1. The R-square (coefficient) is the highest
- 2. The residuals follow normal distribution.
- 3. The p-value corresponding to t-test is less than the significance value α
- 4. The p-value corresponding to t-test is less than the significance value α and the residuals follow normal distribution and the residual are homoscedastic

Options:

94091830005.1

94091830006.2

94091830007.3

94091830008.4

Question Number: 19 Question Id: 9409188009 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

A high street jewellery shop uses a regression model Y = $-10.5 + 95 \times$ carat to predict the price of a diamond as a function of carat, where carat is the weight of the diamond. The value of $\beta 0$ is negative because:

- 1. Regression model is incorrect since the value of diamond cannot take negative value
- The regression models cannot be extrapolated beyond the range of the data used for building the model
- 3. The regression model is valid only for carat values greater than 0.1106 since the value of Y will be positive when carat is greater than 0.1106
- 4. The value of $\beta 0$ (= -10.5) should be ignored while calculating the price of the diamond

Options:

94091830009.1

94091830010.2

94091830011.3

94091830012.4

Question Number: 20 Question Id: 9409188010 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

If the correlation between a predictor variable and the outcome variable is 0.8, the proportion of variation in the outcome variable explained by the predictor variable is:

- 1.0.9
- 2.0.72
- 3.0.89
- 4.0.64

Options:

94091830013.1

94091830014.2

94091830015.3

94091830016.4

Question Number: 21 Question Id: 9409188011 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

In a model $ln(Y) = \beta 0 + \beta 1 X$, the value of $\beta 1$ is

- 1. Change in value of Y for unit change in value of X
- 2. Change in value of X for unit change in value of Y
- 3. Percentage change in value of X for unit change in value of Y
- 4. Percentage change in value of Y for unit change in value of X

Options:

94091830017.1

94091830018.2

94091830019.3

94091830020.4

Question Number: 22 Question Id: 9409188012 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

In multiple regression models, multi-collinearity may result in

- 1. Removing a statistically significant explanatory variable from the model
- 2. The regression coefficient may have opposite sign
- 3. Adding a new variable to the model may cause huge change to the regression coefficient
- 4. All of these are correct

Options:

94091830021.1

94091830022.2

94091830023.3

94091830024.4

Question Number: 23 Question Id: 9409188013 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

When a new variable is added to the regression model, the R-square value increases by

- 1. Square of the semi-partial coefficient between added variable and the response variable
- 2. Correlation coefficient between the added variable and the response variable
- 3. Partial correlation coefficient between added variable and the response variable
- 4. Semi-partial coefficient between added variable and the response variable

Options:

94091830025.1

94091830026, 2

94091830027.3

94091830028.4

Question Number: 24 Question Id: 9409188014 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

If there is an auto-correlation between the successive errors in a time series regression then

- 1. A statistically insignificant variable may be added to the model
- 2. A statistically significant variable may be removed from the model
- 3. The standard error of estimate of the regression parameter is underestimated
- 4. The Durbin-Watson test statistic value will be close to 2

Options:

94091830029.1

94091830030.2

94091830031.3

94091830032.4

Question Number: 25 Question Id: 9409188015 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

When a stepwise regression model is developed, the first variable that is added is

- 1. The variable with highest variance
- 2. The variable that has the least variance
- 3. The variable that has highest correlation with the dependent variable
- 4. The variable with least covariance with the dependent variable

Options:

94091830033.1

94091830034.2

94091830035.3

94091830036.4

Question Number: 26 Question Id: 9409188016 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Variance inflation factor is

- 1. Factor by which the regression coefficient is increased
- 2. Factor by which the t-statistic value is inflated
- 3. The t-statistic is Deflated by a factor of \sqrt{VIF}
- 4. The t-statistic is Inflated by a factor of $\sqrt{\textit{VIF}}$

Options:

94091830037.1

94091830038.2

94091830039.3

94091830040.4

Question Number: 27 Question Id: 9409188017 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

The area under the ROC curve (AUC) represents

- 1. The maximum accuracy of the logistic regression model
- 2. Ratio of sensitivity to the specificity
- 3. Difference between sensitivity and specificity
- 4. Proportion of concordant pairs in the dataset

Options:

94091830041.1

94091830042. 2

94091830043.3

94091830044.4

Question Number: 28 Question Id: 9409188018 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

The Independent variable that has the highest impact on the dependent variable is given by

- 1. The variable with largest coefficient value
- 2. The variable with largest absolute coefficient value
- 3. The variable with largest standardized coefficient value
- 4. The variable with largest absolute standardized coefficient value

Options:

94091830045.1

94091830046.2

94091830047.3

94091830048.4

Question Number: 29 Question Id: 9409188019 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

In a logistic regression, the regression coefficient corresponding to a predictor variable is interpreted as _____

- 1. Change in P(Y = 1) for unit change in the predictor variable value
- 2. Change in odds for unit change in the predictor variable value
- 3. Change in odds ratio for unit change in the predictor variable value
- 4. Change in In-odds ratio for unit change in the predictor variable value

Options:

94091830049.1

94091830050.2

94091830051.3

94091830052.4

Question Number: 30 Question Id: 9409188020 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

f in a data set with 250 positives, an LR model classifies 200 positives correctly then the specificity is
1. 0.8 2. 0.2 3. 1.25 4. Can't say
Options :
94091830053. 1
94091830054. 2
94091830055. 3
94091830056. 4
Question Number : 31 Question Id : 9409188021 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0
Deviance in a logistic regression model should be
 Maximum Minimum Less than the chi-square critical value with df equal to number of variables added Greater than the chi-square critical value with df equal to number of variables added
Options :
94091830057. 1
94091830058. 2
94091830059. 3
94091830060. 4

Question Number : 32 Question Id : 9409188022 Question Type : MCQ Option Shuffling : No Is

Question Mandatory: No

In a Classification and Regression Tree (CART), the splitting of node is based on _____

- 1. Gini impurity index or entropy
- 2. Impurity measures such as Gini index or entropy for classification tree and Sum of Squared Errors (SSE) for regression tree
- 3. Sum of Squared Errors (SSE)
- 4. F-test

Options:

94091830061.1

94091830062.2

94091830063.3

94091830064.4

Question Number: 33 Question Id: 9409188023 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

For a Classification problem with two classes

- 1. Gini index value is greater than or equal to entropy
- 2. Gini index value is less than or equal to entropy
- 3. Gini index value is greater than or equal to entropy when proportion of classes are equal
- 4. Can't say

Options:

94091830065.1

94091830066, 2

94091830067.3

94091830068.4

Question Number: 34 Question Id: 9409188024 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

A Bonferroni correction is used in a CHAID tree development to _____

- 1. ensure that the tree size is optimized and Type-II error is minimized
- 2. Select only statistically significant variables for splitting a node
- 3. adjust the significance value to maintain the overall statistical significance/Type-I error of the model at desired level
- 4. test the statistical significance using the Chi-square test of independence

Options:

94091830069.1

94091830070.2

94091830071.3

94091830072.4

Question Number: 35 Question Id: 9409188025 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

In a simple exponential smoothing method, the low value of smoothing constant α is chosen when

- 1. The data has high fluctuations around the trend line
- 2. There is seasonality in the data
- 3. The data is smooth with low fluctuations
- 4. There are variations in the data due to cyclical component

Options:

94091830073.1

94091830074.2

94091830075.3

94091830076.4

Question Number: 36 Question Id: 9409188026 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Seasonality in time-series data is caused due to

- 1. Changes in macro-economic factors such as recession, unemployment, and so on
- 2. Festivals and customs in a society
- 3. Random events that occur over a period of time
- 4. Changes in customer behaviour driven by new products and promotions

Options:

94091830077.1

94091830078.2

94091830079.3

94091830080.4

Question Number: 37 Question Id: 9409188027 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

A necessary condition for accepting a time series forecasting models is _____

- 1. The residuals should follow a normal distribution
- 2. The residuals should be white noise
- 3. The residuals should be black noise
- 4. The residuals should follow a normal distribution and the R-square should be high

Options:

94091830081.1

94091830082.2

94091830083.3

94091830084.4

Question Number: 38 Question Id: 9409188028 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

For a classification problem with two classes, the proportion of positives at a node is 20%. The value of the Gini index at this node is
1. 0.16
2. 0.13 3. 0.26
4. 0.32
Options:
94091830085. 1
94091830086. 2
94091830087. 3
94091830088. 4
Question Number : 39 Question Id : 9409188029 Question Type : MCQ Option Shuffling : No Is
Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0
The maximum value of the entropy at node K of a classification tree with J classes is
1.0
2. 0.5 3. 1
4. Can't say
Options:
94091830089. 1
94091830090. 2
94091830091.3
94091830092. 4
Question Number : 40 Question Id : 9409188030 Question Type : MCQ Option Shuffling : No Is
Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Decision trees such as CHAID and CART can be used only when the dependent variable is

- 1. Discrete
- 2. Continuous
- 3. Interval
- 4. All three (Discrete, Continuous, Interval)

Options:

94091830093.1

94091830094.2

94091830095.3

94091830096.4

Question Number: 41 Question Id: 9409188031 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

X1 is a normal distribution with mean 500 and standard deviation 50 and X2 is a normal distribution with mean 800 and standard deviation 100. Then ____

- 1. $P(X1 \le 450) > P(X2 \le 700)$
- 2. $P(X1 \le 450) = P(X2 \le 700)$
- 3. $P(X1 \le 450) < P(X2 \le 700)$
- 4. $P(X1 \le 450) \ne P(X2 \le 700)$

Options:

94091830097.1

94091830098.2

94091830099.3

94091830100.4

Question Number: 42 Question Id: 9409188032 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

The power of hypothesis test is (when α = Type I error and β = Type II error)
 1. 1 - β 2. α 3. β 4. 1 - α
Options:
94091830101.1
94091830102. 2
94091830103. 3
94091830104. 4
Question Number : 43 Question Id : 9409188033 Question Type : MCQ Option Shuffling : No Is
Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0
The significance value α is
 Probability accepting a true null hypothesis Conditional probability retaining a null hypothesis when null hypothesis is true Conditional probability of rejecting a null hypothesis when null hypothesis is true Probability accepting an alternative hypothesis
Options :
94091830105. 1
94091830106. 2
94091830107. 3
94091830108. 4
Question Number : 44 Question Id : 9409188034 Question Type : MCQ Option Shuffling : No Is
Question Mandatory : No

Which among the following measures can be calculated with confusion matrix?

- 1. Sensitivity & Specificity
- 2. Precision & Recall
- 3. F-Score
- 4. All of these are correct

Options:

94091830109.1

94091830110.2

94091830111.3

94091830112.4

Question Number: 45 Question Id: 9409188035 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

The Precision of the logistic regression model can be calculated using _____

1.
$$\frac{TP}{TP + FN}$$

$$2. \frac{TN}{TN + FN}$$

3.
$$\frac{TP}{TN+FP}$$

4.
$$\frac{TP}{TP + FP}$$

Options:

94091830113.1

94091830114. 2

94091830115.3

94091830116.4

Question Number: 46 Question Id: 9409188036 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

What is the formula to calculate the Null Deviance in the logistic regression model?

 $1. -2LL0 = -2[N0 \ ln \ (N0/N) + N1 \ ln \ (N1/N)]$

 $2. -2LL0 = -1/2[N0 \ln (N0/N) + N1 \ln (N1/N)]$

3. $-2LL0 = -2[N0 \log (N0/N) + N1 \log (N1/N)]$

4. $-2LL0 = -1/2[N0 \log (N0/N) + N1 \log (N1/N)]$

Options:

94091830117.1

94091830118.2

94091830119.3

94091830120.4

Question Number: 47 Question Id: 9409188037 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

When a new variable is added to the stepwise-regression model at step 3. If its part-correlation value is -0.153 and R^2 value at step-2 is 0.542 then what will be the value of R2 at step-3?

- 1. -1.234
- 2. 0.5422
- 3. -0.5422
- 4. 0.5654

Options:

94091830121.1

94091830122.2

94091830123.3

94091830124.4

Question Number: 48 Question Id: 9409188038 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Calculate the rate at which the property price (Y) changes for unit change in the crime rate (X) when the correlation between them is -0.388 and the standard deviations of x and y are 8.6015 and 9.197

- 1. -2.654
- 2. 1.382
- 3. -0.415
- 4.0

Options:

94091830125.1

94091830126.2

94091830127.3

94091830128.4

Question Number: 49 Question Id: 9409188039 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

In a simple Linear Regression, the relationship between F-Statistic and t-statistic is _____

- 1. F = 2t
- 2. $F = t^2$
- 3. F = 1/t
- 4. Can't define

Options:

94091830129.1

94091830130.2

94091830131.3

94091830132.4

Question Number: 50 Question Id: 9409188040 Question Type: MCQ Option Shuffling: No Is

Question Mandatory: No

For a simple Linear Regression, the relationship between F-Statistic and R² is _____

1.
$$F = \frac{(n-2)^*R^2}{1-R^2}$$

2. $F = \frac{R^2}{(1-R^2)^*(n-2)}$
3. $F = \frac{(n-2)^*(1-R^2)}{R^2}$

4. No Relationship between F-stat and ${\ensuremath{\mathsf{R}}}^2$

Options:

94091830133.1

94091830134. 2

94091830135.3

94091830136.4