SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What are the merits and limitations of measurement of Trend?

Q.22 Explain the types of correlation analysis?

Q.23 Explain formation of continuous Frequency distribution?

Q.24 Explain non-linear correlation?

Q.25 What are the uses of regression analysis?

Q.26 What are the components of Time series?

Q.27 Explain Spearmen's rank correlation coefficient?

Q.28 Explain measuring trends by logarithms?

Q.29 What are the uses of Index Numbers?

Q.30 Explain how to set up the control procedure of statistical quality control?

Q.31 State the merits of calculating Time Series?

Q.32 What are the merits of concurrent deviation?

Q.33 State the type of Index Numbers?

Q.34 Explain regression lines?

Q.35 Explain weighted Index Numbers?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain the Karl Pearson's Coefficient of correlation?

Q.37 What do you mean by regression? Differentiate between regression and correlation?

Q.38 Explain the methods of construction Index Numbers?

Roll No. .....

Branch : FAA

Subject : Business Statistics-II

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 Seasonal Variations are

a) Short term variation b) Long term variation

c) Sudden variation d) None

Q.2 If the values of two variables move in the opposite direction,_____

a) The correlation is said to be linear

b) The correlation is said to be non-linear

c) The correlation is said to be positive

d) The correlation is said to be negative

Q.3 Second differencing in time series can help to eliminate which trend?

a) Quadratic Trend b) Linear trend

c) Both A & B d) None of the above

Q.4 Time series data have a total number of components

a) 3 b) 6

c) 5 d) 4

Q.5 The original hypothesis is knows as_____.

a) Alternate hypothesis

b) Null hypothesis

c) Both a and b are incorrect

d) Both a and b are correct

Q.6 Which of the following is true for the coefficient of correlation?

a) The coefficient of correlation is not dependent on the change of scale
b) The coefficient of correlation is not dependent on the change of origin.
c) The coefficient of correlation is not dependent on both the change of scale and change of origin
d) None of the above

Q.7 Which of the following statements is true about the type two error?

a) Type two error means to accept an incorrect hypothesis
b) Type two error means to reject an incorrect hypothesis
c) Type two error means to accept a correct hypothesis
d) Type two error means to reject a correct hypothesis

Q.8 Which of the following statements is true about the regression line?

a) A regression line is also known as the line of the average relationship.
b) A regression line is also known as the estimating equation
c) A regression line is also knows as the prediction equation
d) All of the above

Q.9 The independent variable is used to explain the dependent variable in _____.

a) Linear regression analysis
b) Multiple regression analysis
c) Non linear regression analysis
d) None of the above

Q.10 Which of the following statement is true about the arithmetic mean of two regression coefficients?

a) It is less than the correlation coefficient
b) It is equal to the correlation coefficient
c) It is greater than or equal to the correlation coefficient.
d) It is greater than the correlation coefficient

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Explain Residual method of cyclic Variations?
Q.12 Explain splicing the Index Numbers?
Q.13 When is appropriate to use Logistic regression?
Q.14 What is unweighted Index Numbers?
Q.15 Write one demerits of Time series?
Q.16 Explain the method of least squares?
Q.17 Write on merit of Method of moving averages?
Q.18 What is dependent variable?
Q.19 What are linear and logistic regression?
Q.20 Write the definition of Index numbers.