

MAR/APRIL 2022

Total No. of Questions : 5]

P8035

SEAT No. :

[Total No. of Pages : 2

[5860]-317

S.Y.M.B.A.

SC-BA-03 : ADVANCED STATISTICAL METHODS USING R
(2019 Pattern) (Semester-III) (304 BA)

Time : 2½ Hours]

Instructions to the candidates:

[Max. Marks : 50

- 1) All questions are compulsory.
- 2) Make appropriate assumptions wherever required.



Q1) Answer the following questions (Any Five)

[5×2=10]

- a) Define NULL and Alternate hypothesis.
- b) Define statistical modeling
- c) What is adjusted R^2 in regression analysis?
- d) Explain Unlist () function.
- e) Explain aov () function.
- f) What is logistic regression.
- g) Define Predictive analytics.
- h) How many predictor variables must be used in multiple regression?

Q2) Answer the following questions. (Any two).

[2×5=10]

- a) Compare Poisson distribution and binomial distribution.
- b) Describe test procedure for testing significance of Correlation coefficient.
- c) Explain Z test of hypothesis testing. Write the syntax and explain in detail.

P.T.O.

Q3) Solve any one of the following. [1×10=10]

- a) Consider the employee salary database and perform all types of descriptive analysis the data with the help of R programming code.
- b) Explain multiple regression with its two application.

Q4) Solve any one of the following. [1×10=10]

- a) Explain dimension reduction techniques with example.
- b) Discuss techniques of performance evaluation of logistic regression model.

Q5) Solve any one of the following. [1×10=10]

- a) Explain the concept of Time Series. Discuss how time series is used in business forecasting.
- b) Describe linear Discriminant analysis (LDA). Write a brief outline of R code for the same.

