

Total No. of Questions : 5]

SEAT No. :

P-7901

[Total No. of Pages : 2

[6118]-3005

M.B.A.

**304 : SC-BA-03 : ADVANCED STATISTICAL METHODS
USING R**

(2019 Revised Pattern) (Semester - III)

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

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

Q1) Answer the following questions (any five) :

[10]

- a) What is a Z-test used for?
- b) How do you calculate Anova in R?
- c) What is the principal component analysis?
- d) What are variables in R programming?
- e) What are the data cleaning packages in R?
- f) What is the Linear Discriminant analysis?
- g) What is an ACF plot?
- h) What is the basic probability Distributions in R?

Q2) Answer the following questions (any two) :

[10]

- a) Write short note on cross tabulation.
- b) Explain the binominal distribution with formula & examples.
- c) What is difference between linear & multiple regression.

P.T.O.

Q3) Answer the following questions (any one): **[10]**

- a) What is ANOVA in R? Explain one way ANOVA in details. State the Limitations of ANOVA?
- b) How to perform step-by-step logistic Regression in R?

Q4) Answer the following questions (Any one): **[10]**

- a) Describe the factor analysis? What are the types and examples of factor analysis?
- b) Write down the step-by-step procedure of linear regression model?

Q5) Answer the following questions (any one): **[10]**

- a) Describe descriptive analysis in R? Explain any three functions of descriptive analysis in R?
- b) Explain the concept of time series analysis? Explain the any four types of time series analysis with examples?

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