

Total No. of Questions : 5]

PD2719

SEAT No. :

LIBRA

[Total No. of Pages : 2

[6430]-57

S.Y. M.B.A.

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

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

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

Q1) Answer the following questions : (Any five)

[10]

- a) What is Regression?
- b) Write down the syntax for calculating median in R. Also explain the parameter.
- c) What is the use of head() function in R.
- d) Define Predictive Analysis.
- e) Explain unlist () function in R.
- f) What is the use of Pbinom () function in R.
- g) Define Null & Alternate hypothesis.
- h) What is the basic probability distribution in R.

Q2) Answer the following questions : (any two)

[10]

- a) What is the difference between F & T test?
- b) State the assumption of regression model?
- c) What is the trade off between bias & variance.

P.T.O.

Q3) Answer the following questions : (Any one)

[10]

- a) Explain the ARIMA model. How ARIMA model is used for time series analysis.
- b) Examine Anova in R? State the assumptions & explain one way Anova in details & also write benefit of ANOVA.

Q4) Answer the following questions : (any one)

[10]

- a) What is data mining? What are the applications of data mining in education?
- b) Differentiate between supervised learning & unsupervised learning?

Q5) Answer the following questions : (any one)

[10]

- a) Explain descriptive analysis in R. State advantages & disadvantages of descriptive analysis.
- b) What are the types of probability? Explain in details with examples.

