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Total No. of Questions : 5]

SEAT No. :

PA-3678

[Total No. of Pages : 2

[5946]- 317
S.Y.M.B.A.
304 - BA-SC-BA-03 : ADVANCED STATISTICAL METHODS USING R
(2019 CBCS 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) Enlist basic statistical functions in R.

b) What is difference between parametric and non parametric tests?

c) Define predictive analytics?

d) Explain pbinom ( ) function in R.

e) How do you interprete p value in hypothesis testing?

f) Write a function to get a list of all the packages installed in R.

g) Write a function to obtain the transpose of a matrix in R?

h) What is the purpose of regression analysis in R?

Q2) Answer the following questions (Any Two) **[10]**

a) Explain T-test of hypothesis testing in R. Write syntax and explain in detail.

b) Define probability. Explain any two functions of probability distribution.

c) What is linear regression? What do you mean by dependent and independent variables?What is difference between linear & multiple regression?

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Q3) Answer the following question (Any one). **[10]**

a) Examine ANOVA in R? State the assumptions and explain one way ANOVA in detail. Also state benefits of ANOVA.

b) What do you mean by dimension reduction? Explain linear discrimination analysis (LDA) with sytax. Also explain application of LDA in marketing domain.

Q4) Answer the following question (Any One) **[10]**

a) Describe descriptive analytics in R. Explain any three functions of descriptive analytics in R.

b) What is logistics regression in R? Assume suitable data and explain how do you interprete regression coefficients in R?

Q5) Answer the following questions (Any One) **[10]**

a) Revise the concept of Time series analysis. Explain how time series analysis is used for business forecasting?

b) Write short Notes (Any one)

i) F Test in R

ii) Bayes Theorem

iii) Correlation analysis

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