

Total No. of Questions : 5]

SEAT No. :

PC-3025

[Total No. of Pages : 2

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M.B.A. (Management)

**205BA : SC- BA - 01: BASIC OF BUSINESS ANALYTICS USING R
(2019 Revised Pattern) (Semester - II)**

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) All questions are compulsory
- 2) All questions carry equal marks.

Q1) Answer any FIVE questions out of Eight (2 marks each) :

- a) Differentiate Business Analytics Vs Business analysis.
- b) How to delete a vector?
- c) Vector V is C(1, 2, 3, 4) and list (5 : 8), what is the output of V*X[1]?
- d) What is the use of apply () in R.
- e) What does col. max(X) do?
- f) Give any three features of R.
- g) What will be the output of the expression all (NA == NA)?
- h) What is Arrays?

Q2) Answer any TWO questions out of THREE (5 marks each) :

- a) Write a R program to create Data Frames. Which contain details of 5 employees and display summary of the data.
- b) Why use R for statistical computing and graphics?
- c) How to create a matrix in R programming?

Q3) Answer Question 3(a) or 3(b) :

[10]

- a)
 - i) How to create a list in R programming?
 - ii) How to access components of a list?
- b) Explain the overview of applications :-
 - i) Marketing Analytics
 - ii) HR Analytics

P.T.O.

Q4) Answer Question 4(a) or 4(b) :

[10]

- a) i) How to create a Data Frame in R?
- ii) How to access components of a Data Frame?
- b) Write a R program to create three vectors a, b, c with 3 integers. Combine the three vectors to become a 3×3 matrix where each column represents a vector. Print the content of the matrix.

Q5) Answer Questions 5(a) or 5(b) :

[10]

- a) i) What is SAAS and SPSS in R?
- ii) How many types of data types are provided by R?
- b) i) What is using all() and any ()
- ii) Write a R program to replace NA values with 3 in a given data frame.



Total No. of Questions : 5]

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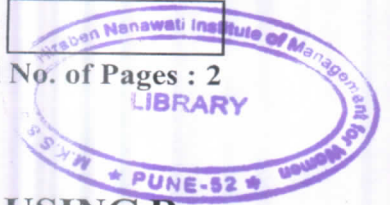
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First Year M.B.A. (Management)

205 BA SC-BA-01 : BASIC BUSINESS ANALYTICS USING R

(Revised 2019 Pattern) (Semester-II)



Time : 2 ½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Each question has an internal option.*
- 3) *Each question carry equal marks.*

Q1) Define any five.

[10]

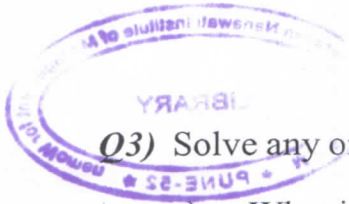
- a) Vector
- b) List
- c) Data frames
- d) Scalar
- e) Data Analyst
- f) Arrays
- g) Information
- h) Web scrapping

Q2) Answer any two from the following.

[10]

- a) Difference between Business Analytics and Business Analysis.
- b) Explain the future of Business Analytics.
- c) Discuss the steps of importing data from spreadsheets, text file.

P.T.O.



Q3) Solve any one from the following.

[10]

- a) What is Business Analytics? What are the features of R programming?
- b) Write a program to find the sum of digits of any integer.

Q4) Solve any one from the following.

[10]

- a) What are the built in functions in R like seq(), cbind(), rbind(), merge().
- b) Summarize data by using functions like : str(), class(), length(), nrow(), ncol().

Q5) Solve any one from the following.

[10]

- a) Explain the various uses of functions like grep(), grep1(), sub(), summarize(), list().
- b) What is data visualization? Explain the various data visualization tools.



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