

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BCom DEGREE EXAMINATION MAY 2019
(Fourth Semester)**

Branch - COMMERCE (BUSINESS ANALYTICS)

R PROGRAMMING

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

- 1 How to find missing values in R?
- 2 Write the importance of R.
- 3 Explain about attr() function in R.
- 4 Write about the Ordered Factors in R.
- 5 Define List in R.
- 6 How to load data from other R packages?
- 7 What are Grouped Expressions?
- 8 Explain about split () functions in R.
- 9 Give an example for par() function.
- 10 Explain about Displaying Multivariate data in R.

SECTION - B (25 Marks!)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a How to generate Regular Sequence in R? Give example.
OR
b Write short note on the Index Vectors in R with e.g.
- 12 a Comprehend about tapply () function in R with example.
OR
b Write about Array () function in R.
- 13 a How to create a List in R? Give examples for Modifying and Concatenating List.
OR
b Define Data Frames in R. What are the restrictions on List which brought out Data frames?
- 14 a Elaborate on Conditional Execution in R with e.g.
OR
b Write short note on for Loop, Repeat and while in R. Give e.g.
- 15 a Explain about plot () function in R with e.g.
OR
b Brief about Flershey vector fonts with e.g.

SECTION - C (30 Marks!)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Explain in detail about Vector Arithmetic and Logical Vectors in R. Give e.g.
- 17 Discuss in detail about the Matrix Facilities in R with example.
- 18 Write in detail about Reading data from Files in R. Give e.g.