PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2024
(Fourth Semester)

Branch – COMMERCE (BUSINESS ANALYTICS)

R PROGRAMMING

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 = 5)

1. What is R?
   (a) A Statistical programming language   (b) A spreadsheet
   (c) A Format   (d) A Program

2. Which of the following is a valid variable name?
   (a) 2var   (b) var2
   (c) var-2   (d) var#2

3. What is a correct syntax to output "Hello World" in R?
   (a) 'Hello World'   (b) "Hello World"
   (c) Print("Hello World") (d) All of the other

4. Which function is used to add additional columns in a matrix?
   (a) add()   (b) cbind()
   (c) join()   (d) append()

5. Lists can be created using the ___ function?
   (a) List()   (b) Matrix.1;
   (c) Matrix.lists   (d) Lists.Matrix

SECTION - B (15 Marks)
Answer ALL questions
ALL questions carry EQUAL Marks   (5 x 3 = 15)

6. a) List out and explain the features of R programming.

   OR

   b) Discuss about the R commands.

7. a) Explain the Ordered and Unordered factors in object class.

   OR

   b) Elucidate the Array Indexing.

8. a) Write short notes about the Modification of data frames.

   OR

   b) Describe the Scan() function in files.

9. a) Discuss about the Grouped expressions.

   OR

   b) Differentiate repeat and while loops with examples.

10. a) Explain about the Graphics parameters with examples.

OR

    b) Discuss about the Hersley vector fonts.

SECTION -C (30 Marks)
Answer ANY THREE questions
ALL questions carry **EQUAL** Marks   (3 x 10 = 30)

11.   Explain the types of Vectors with examples.

12.   Discuss about the Transpose of an Array in detail.

13.   Describe the Constructing and Modifying lists.

14.   Describe the Control Statements in loops.

15.   Explain the plot() function display multivariate data in graphics.

Z-Z-Z   END