M. Sc. (IT & CA) (Sem. III) (CBCS) Examination

November - 2019

CS-15 : Programming with R for Data Science

Faculty Code : 003

Subject Code : 1083003

Time : **2½** Hours]   [Total Marks : **70**

1   (a)   Attempt following questions :   **4**

     (1)   Which function is used to delete variable?

     (2)   What is Data ?

     (3)   GUI Stands for _____.

     (4)   _____ and _____ function used to print any type of R data.

    (b)   Attempt any **one** :   **2**

     (1)   List out operators.

     (2)   Use of Variable.

    (c)   Attempt any **one** :   **3**

     (1)   Explain Arithmetic operators with example.

     (2)   Explain lengths (), seq() and c() with example.

    (d)   Attempt any one :   **5**

     (1)   List out R Object. Explain any two objects.

     (2)   How many types of data? Explain with example.

2 (a) Attempt following questions : **4**

  (1) Use of Mean function.

  (2) Define Colon (:) in R.

  (3) What is Variable Scope?

  (4) Define Paste ()

  (b) Attempt any one : **2**

  (1) Use of Environment in R.

  (2) Give the definition and syntax of R function.

  (c) Attempt any one : **3**

  (1) Explain Format Q function with example.

  (2) List out function Components.

  (d) Attempt any one : **5**

  (1) Explain Factor with example.

  (2) Explain flow control with example.

3 (a) Attempt following questions : **4**

  (1) EST stands for _____

  (2) CRAN stands for _____

  (3) Use of Search () function.

  (4) _____ % is display 24 hours' time system.

  (b) Attempt any **one** : **2**

  (1) What is UTC?

  (2) What is the use of packages?

  (c) Attempt any one : **3**

  (1) Explain Date Classes with example.

  (2) What is Parsing Dates?

(d) Attempt any one : 5

   (1) Describe Date with arithmetic operation.

   (2) Explain Time Zone with strftme and strptime function.

4 (a) Attempt following questions : 4

   (1) XML stands For _____

   (2) _____ package used JSON file.

   (3) _____ argument is used to give a title to the graph.

   (4) Pie chart is created using the _____ function.

(b) Attempt any **one** : 2

   (1) Give the syntax of Pie chart.

   (2) Explain getwd() and setwd() function.

(c) Attempt any **one** : 3

   (1) Explain Boxplot() with example.

   (2) Explain Line charts with example.

(d) Attempt any **one** : 5

   (1) Explain any two chart with example.

   (2) Write down query

      A - Create CSV file with 20 Records with 5 fields (Eno, Name, Salary, Department, City).

      B - Read File csv file.

      C - Display Number of row and Number of Column.

      D - Get maximum salary from table.

      E - Get All Employee working with IT Department.

5 (a) Attempt following questions :   4

        (1) What is Data Processing?

        (2) What is Data?

        (3) RRE stands for _____

        (4) What is Dataflow?

   (b) Attempt any **one** :   2

        (1) Explain Use of analysis Report.

        (2) Difference : Data and Big Data.

   (c) Attempt any **one** :   3

        (1) Explain data manipulation.

        (2) Explain qualitative and Quantitative data.

   (d) Attempt any **one** :   5

        (1) Describe various types of Data collection Method.

        (2) What is Roll of Analysis in R?

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