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

November / December - 2018

CS - 15 : Programming with R for Data Science

Faculty Code : 003

Subject Code : 1083003

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

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

   (1) Variables can be printed using _____

   (2) Use _____ function which means to combine the elements into a vector.

   (3) If I have a vector $x < -1:4$ and $y < -2:3$. What is produced by the expression $x + y$?

   (4) Logical operators support only _____ data types.

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

   (1) How to delete created variable?

   (2) List out operators.

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

   (1) Explain sort( ) function with example.

   (2) Describe characteristics of data.

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

   (1) List types of operators and explain any one type.

   (2) Explain Data frames with example.

2 (a) Attempt following questions : 4

    (1) _____ Function gives a different number each time.

    (2) File path are separated by _____

    (3) Many string in R are combined using the _____ function.

    (4) Full form of gl( )

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

    (1) Explain if and else.

    (2) Explain function components.

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

    (1) Explain sum( ),mean( ) with example.

    (2) Explain variable scope.

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

    (1) Explain file path with getwd( ) and setwd( ) function.

    (2) Explain looping with array.

3 (a) Attempt following questions : 4

    (1) CRAN stands for _____

    (2) EST stands for _____

    (3) _____ repentant day of month.

    (4) Full name of the day _____ specifies use.

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

    (1) Explain search( ) function.

    (2) What is UTC?

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

    (1)   Explain Date class with example.

    (2)   List format of date and explain any three of them.

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

    (1)   Explain time zones with example

    (2)   How to install and view packages?

4   (a) Attempt following questions :   4

    (1)   Use excel file _____ package is installed.

    (2)   How to read XML file?

    (3)   Which argument is used for names appearing under each bar in bar plot?

    (4)   CSV stands for _____

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

    (1)   Give the syntax of Boxplots.

    (2)   Give the syntax of Scatterplots.

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

    (1)   Explain Line charts with example.

    (2)   Explain Histogram charts with example.

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

    (1)   Explain Histogram and create chart using csv file.

    (2)   Create Pie charts using CSV file.

5   (a) Attempt following questions :   4

    (1)   Explain Benefits of Data Analysis.

    (2)   What is Process?

    (3)   Give the Definition of Data.

    (4)   Give Full Form of RRE

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

    (1) How to summarized data in R?

    (2) Explain Use of analysis Report.

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

    (1) Describe data manipulation.

    (2) Explain Qualitative and Quantitative data.

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

    (1) Explain data collection method.

    (2) Explain Roll of analysis in R.

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