



**HDG-003-1083003**

Seat No. \_\_\_\_\_

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

**November / December – 2017**

**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) R scripts ends with extension \_\_\_\_\_.
  - (2) \_\_\_\_\_ function is used to delete variable.
  - (3) \_\_\_\_\_ function is used for generating sequences ?
  - (4) What would be the result of following R code ?  
> X <- 1  
> print(x)
- (B) Attempt any one : 2
- (1) What is need of data analysis ?
  - (2) Explain characteristics of data.
- (C) Attempt any one : 3
- (1) Explain print ( ) and c ( ) function with example.
  - (2) Explain R data types.

- (D) Attempt any one : 5
- (1) Explain vectors in detail.
  - (2) List types of operators and explain any one type.
- 2 (A) Attempt following questions : 4
- (1) What is the output of `runif(4)` ?
  - (2) Give the syntax of `seq()` function.
  - (3) Variables can be printed using \_\_\_\_\_ and \_\_\_\_\_ function.
  - (4) Give the syntax of `strsplit()` function.
- (B) Attempt any one : 2
- (1) Explain function component.
  - (2) Explain `paste()` function.
- (C) Attempt any one : 3
- (1) Explain `substring()` function.
  - (2) Explain Environment.
- (D) Attempt any one : 5
- (1) List types of loops. Explain any loop with example.
  - (2) Explain Factors in detail.
- 3 (A) Attempt following questions : 4
- (1) POSIX stands for \_\_\_\_\_.
  - (2) How do you install a package in R ?
  - (3) CRAN stands for \_\_\_\_\_.
  - (4) What is the use of `%1` ?
- (B) Attempt any one : 2
- (1) What is the use of packages ?
  - (2) List data and time classes.

- (C) Attempt any one : 3
- (1) Explain POSIXct class.
  - (2) Explain strftime( ) and strptime( ).
- (D) Attempt any one : 5
- (1) Explain arithmetic with Dates and times.
  - (2) Explain time zones with example
- 4 (A) Attempt following questions : 4
- (1) \_\_\_\_\_ is a CSV file extension.
  - (2) R creates histogram using \_\_\_\_\_ function.
  - (3) (Give the answer True or False). xlsx extension is use for read excel file.
  - (4) \_\_\_\_\_ Argument is use for give Title of the chart.
- (B) Attempt any one : 2
- (1) Explain getwd( ) and setwd( ) function.
  - (2) How can you load and use csv file in R ?
- (C) Attempt any one : 3
- (1) Explain Bar charts with example.
  - (2) Explain pie charts with example.
- (D) Attempt any one : 5
- (1) Write down query
    - A- Create XML file with 10 Records with 5 fields.
    - B- Get number of nodes in XML file
    - C- Display First Node.
    - D- Get the fifth element of the first node.
  - (2) Explain Histogram and create chart using csv file.

- 5 (A) Attempt following questions : 4
- (1) RRE stands for \_\_\_\_\_.
  - (2) What is data ?
  - (3) Definition of data process.
  - (4) How to managing data ?
- (B) Attempt any one : 2
- (1) What is big data analysis ?
  - (2) How to summarized data in R ?
- (C) Attempt any one : 3
- (1) Explain qualitative and Quantitative data.
  - (2) Explain analytical process flow.
- (D) Attempt any one : 5
- (1) Explain data collection method.
  - (2) Explain data manipulation.
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