



**PB-003-1083003** Seat No. \_\_\_\_\_

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

**May / June - 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) Objective type questions : 4
- (1) CSV stands for \_\_\_\_\_
  - (2) \_\_\_\_\_ is used for Statistical analysis in R language.
  - (3) \_\_\_\_\_ is used to represent impossible values in R.
  - (4) What is DataSet?
- (B) Answer in brief : (Any One) 2
- (1) Explain Vector.
  - (2) Explain List.
- (C) Answer in detail : (Any One) 3
- (1) Explain Data types in R.
  - (2) Explain Classification of data.
- (D) Write a note on : (Any One) 5
- (1) What is Data Analytics? Explain need and applications of Data Analytics.
  - (2) Explain Data Frames in detail.
- 2 (A) Objective type questions : 4
- (1) \_\_\_\_\_ function print 1 to 10.
  - (2) \_\_\_\_\_ function is used to generate factor levels.
  - (3) Output of result `<-format(23.590, digits=3)` is \_\_\_\_\_.
  - (4) `v <- LETTERS [1:3]` display \_\_\_\_\_.

- (B) Answer in brief : (Any One) 2
- (1) Explain repeat loop in R.
  - (2) Explain seq( ) function.
- (C) Answer in detail : (Any One) 3
- (1) Explain Replication in R.
  - (2) Explain strsplit( ) function.
- (D) Write a note on : (Any One) 5
- (1) Explain Factors in detail.
  - (2) Explain lapply and sapply with example.
- 3** (A) Objective type questions : 4
- (1) \_\_\_\_\_ function displays list of all installed packages in R.
  - (2) CRAN stands for \_\_\_\_\_.
  - (3) Which function gives library locations containing R packages?
  - (4) \_\_\_\_\_ function displays current system date and time.
- (B) Answer in brief : (Any One) 2
- (1) What is package? How to load package?
  - (2) Explain search path.
- (C) Answer in detail : (Any One) 3
- (1) Write a step to install packages in R.
  - (2) How to maintain packages in R?
- (D) Write a note on : (Any One) 5
- (1) Explain POSIX classes.
  - (2) Explain Dateclass with example.
- 4** (A) Objective type questions : 4
- (1) JSON stands for \_\_\_\_\_.
  - (2) \_\_\_\_\_ function gets and prints current working directory in R.
  - (3) \_\_\_\_\_ function is used to read Excel file in R.
  - (4) Which function is used to gather the URL of file in R?

- (B) Answer in brief : (Any One) **2**  
 (1) How to write data into .csv file?  
 (2) How to read JSON file?
- (C) Answer in detail : (Any One) **3**  
 (1) Explain pie charts with example.  
 (2) Explain bar charts with example.
- (D) Answer in detail : (Any One) **5**  
 (1) Explain Histogram.  
 (2) Write down query  
 A-Create csv file having 10 Records with 5 fields.  
 B-Get Maximum salary.  
 C-Create a data frame.  
 D-Get the person details having max salary.
- 5** (A) Objective type questions : **4**  
 (1) What is big data analytics?  
 (2) RRE stands for \_\_\_\_\_  
 (3) What is data?  
 (4) What is data process?
- (B) Answer in brief : (Any One) **2**  
 (1) Explain Data Manipulation.  
 (2) Explain Data Summarization.
- (C) Answer in detail : (Any One) **3**  
 (1) Explain report generation using R  
 (2) Describe Typical Analytical Process Flow.
- (D) Write a note on : (Any One) **5**  
 (1) Explain BigData Analytics using R.  
 (2) Explain Data Collections Method.
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