

M.Sc.(IT & CA) Semester - 3 (CBCS) Examination
OCT/NOV-2024 (AS PER SYLLABUS YEAR JUNE-2024)
Programming with R for Data Science (Core (New-23))

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 (A) Answer the following questions. (03)
- 1) R is a programming language. (True / False)
 - 2) _____ function finds out the current working directory.
 - 3) Full form of CSV file.
- (B) Answer the following question. (Any two) (06)
- 1) Explain classification of data.
 - 2) Explain characteristics of data.
 - 3) Explain Vector Recycling and Repetition with example.
 - 4) Explain read.table() and read.csv with example.
- (C) Answer the following question. (Any one) (05)
- 1) Explain Basic Layout of RStudio.
 - 2) Explain R-objects in details.
- Que.2 (A) Answer the following questions. (03)
- 1) _____ function is use to get the current environment in R.
 - 2) _____ function is use to interrupt the process in R.
 - 3) _____ debug function stops the execution of a function until the user allows it to continue.
- (B) Answer the following question. (Any Two) (06)
- 1) Explain functions in R with example.
 - 2) Explain Strings with example.
 - 3) Explain Factors with example.
 - 4) Explain Lapply, Vapply and Sapply with example.
- (C) Answer the following question. (Any one) (05)
- 1) Explain types of Loops in R with example.
 - 2) Explain Conditions Handling in R with example.
- Que.3 (A) Answer the following questions. (03)
- 1) _____ function is used to load the packages.
 - 2) CRAN stands for.
 - 3) _____ function is used to see all loaded packages.
- (B) Answer the following question. (Any two) (06)
- 1) Explain Packages in R.
 - 2) How to install and maintain packages in R.
 - 3) Explain formatting dates with example.
 - 4) Explain lubridate with example.
- (C) Answer the following question. (Any one) (05)
- 1) Explain Date class in details.
 - 2) Explain Time Zone in details.

- Que.4 (A) Answer the following questions. (03)
- 1) XML stands for.
 - 2) ____function is used to read a CSV file from your current working directory.
 - 3) R creates Histogram Using ____ function.
- (B) Answer the following question. (Any two) (06)
- 1) Explain read.csv() and write.csv() with example.
 - 2) Explain R-XML files with example.
 - 3) Explain boxplots with example.
 - 4) Explain Histograms in R.
- (C) Answer the following question. (Any one) (05)
- 1) Explain Bar Charts in R with example.
 - 2) How to work with Database in R?
- Que.5 (A) Answer the following questions. (03)
- 1) R stores everything into ____.
 - 2) Full form of RAF.
 - 3) Files written in R markdown have ____extension.
- (B) Answer the following question. (Any two) (06)
- 1) What is Business Analytics?
 - 2) What is R-Markdown?
 - 3) Generate simple presentation using R.
 - 4) Explain Analytical Process flow.
- (C) Answer the following question. (Any one) (05)
- 1) Explain Data Collection Methods.
 - 2) Explain methods to summarize Data in R.
