

M.Sc.(IT & CA) Semester - 3 (CBCS) Examination
Oct/Nov-2022 (NEW COURSE)
Programming With R For Data Science (Core (New))

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

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Q.1(A) Answer the following questions. (03)

1. What is R Programming?
2. What is use of variable in R Programming?
3. List Data Types in R.

Q.1(B) Answer the following questions. (ANY TWO) (06)

1. How to Accessing List Elements in R Programming?
2. What is Vector Element Sorting? Explain.
3. What is Data Frame and characteristics of data frame in R Programming?
4. What is vector in R Programming?

Q.1(C) Answer the following questions. (ANY ONE) (05)

1. How to create a matrix in R Programming?
2. How to Extract Data from Data Frame? Explain with Example.

Q.2(A) Answer the following questions. (03)

1. What is Function?
2. List loops statement in R Programming.
3. Which function create factor in R Programming?

Q.2(B) Answer the following questions. (ANY TWO) (06)

1. Explain format () function with example.
2. Explain repeat loop with example.
3. Write an example of creating a string in R.
4. Explain nchar () function with example.

Q.2(C) Answer the following questions (ANY ONE) (05)

1. Explain while loop with example.
2. Write an R Program to Find the Factorial of a Number.

Q.3(A) Answer the following questions (03)

1. What is Date Class?
2. What is Format?
3. What is Instant?

- Q.3(B) Answer the following questions. (ANY TWO) (06)
1. How to Install a New Package in R Programming?
 2. Explain Intervals, Duration and Periods.
 3. How to Load Package to Library in R Programming?
 4. What is Chron Package?
- Q.3(C) Answer the following questions. (ANY ONE) (05)
1. How to Check Available R Packages.
 2. Explain POSIXt Date-Time Class.
- Q.4(A) Answer the following questions. (03)
1. Which function is use for read Binary files?
 2. Which package is use for read JSON file?
 3. What is boxplot in R Programming?
- Q.4(B) Answer the following questions. (ANY TWO) (06)
1. How to Read the JSON File in R Programming?
 2. How to Creating the Scatterplot in R Programming?
 3. How to Reading a CSV File in R Programming?
 4. How to read and write XML file in R Programming?
- Q.4(C) Answer the following questions. (ANY ONE) (05)
1. Explain about Pie Chart Title and Colours with example.
 2. Explain Scatterplot Matrices with example.
- Q.5(A) Answer the following questions. (03)
1. What is big data?
 2. What is data flow?
 3. What is problem solving?
- Q.5(B) Answer the following questions. (ANY TWO) (06)
1. What is R Analytical Flow?
 2. Explain Scope of big data analysis using R.
 3. Write attributes of big data.
 4. What are R's challenges for analytics using R Programming?
- Q.5(C) Answer the following questions (ANY ONE) (05)
1. Explain big data strategies in R.
 2. Explain Data Summarization and Presentation.
