

M.Sc.(IT & CA) Semester - 3 (CBCS) Examination**Nov/Dec-2023 (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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- Que-1 (A) Answer the following questions (03)
1. Which function used to check data type of variable in R?
 2. XML Full form.
 3. Full form of CRAN.
- Que-1 (B) Answer the following questions (ANY TWO) (06)
1. What is list in R programming?
 2. Explain Relational operator in R.
 3. What is Data analytics?
 4. List out operators.
- Que-1 (C) Answer the following questions (ANY ONE) (05)
1. Explain Atomic and Recursive variables.
 2. Explain Data Frames in detail.
- Que-2 (A) Answer the following questions (03)
1. Explain paste () function.
 2. V<- LETTERS [1:3] display _____.
 3. Explain break statement.
- Que-2 (B) Answer the following questions (ANY TWO) (06)
1. Explain Repeat loop in R
 2. Explain Replication in R.
 3. Explain format () function with example.
 4. Explain if and else.
- Que-2 (C) Answer the following questions (ANY ONE) (05)
1. Explain lapply and sapply function with example.
 2. What is factor? Explain in detail.
- Que-3 (A) Answer the following questions (03)
1. How to install package in R?
 2. EST Full form.
 3. Which function display current date and time?
- Que-3 (B) Answer the following questions (ANY TWO) (06)
1. What is the package? How to load the package?
 2. How to maintain packages in R?
 3. Explain search path.
 4. List format of date explain any three of them.
- Que-3 (C) Answer the following questions (ANY ONE) (05)
1. Explain Time Zones with example.
 2. Explain Intervals, Duration and Periods.

- Que-4 (A) Answer the following questions (03)
1. Full form of JSON.
 2. R create histogram using which function?3
 3. .xls Stand for which file type.
- Que-4 (B) Answer the following questions (ANY TWO) (06)
1. How to write data into .XML file?
 2. How to read JSON file in R programming?
 3. Explain Bar Charts with example.
 4. Explain pie charts.
- Que-4 (C) Answer the following questions (ANY ONE) (05)
1. Explain Histogram.
 2. Explain Read and write CSV file in R.
- Que-5 (A) Answer the following questions (03)
1. What is Big Data?
 2. What is Process?
 3. What is problem solving?
- Que-5 (B) Answer the following questions (ANY TWO) (06)
1. Explain data Summarization.
 2. How to summarized data in R?
 3. What is R Analytical Flow?
 4. Explain Qualitative and Quantitative Data.
- Que-5 (C) Answer the following questions (ANY ONE) (05)
1. Explain Big Data Analytics using R.
 2. Explain Report Generation in R.
