

M.Sc.(IT & CA) Semester - 3 (CBCS) Examination
Oct/Nov-2021 (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.

-
- Q.1(A) Answer following Questions** (03)
1. _____function used to find out the name of the current working directory.
 2. CRAN stands for_____.
 3. How to convert vector to list?
- Q.1(B) Answer following Questions (Any Two)** (06)
1. What is vector in R? Explain with Example.
 2. What is list in R?
 3. Explain Matrices in R?
 4. Explain Structured, Semi-Structured, Unstructured Data.
- Q.1(C) Answer following Question (Any One)** (05)
1. Explain Data Frames in details with example.
 2. Explain Data Types of R.
- Q.2(A) Answer following Questions** (03)
1. Which function is used to generate vector in R?
 2. Which function is used to create sequence in R?
 3. Which function combines strings in R?
- Q.2(B) Answer following Questions (Any Two)** (06)
1. Explain Strings in R.
 2. What is Factor? Explain Factor in R.
 3. Explain if and else in R.
 4. Explain paste() and paste0() function in R.
- Q.2(C) Answer following Question (Any One)** (05)
1. Explain loops and advanced loops in R.
 2. Explain User Defined function in R with Example.
- Q.3(A) Answer following Questions** (03)
1. _____function is used to load the packages.
 2. _____is used to identify month in date.
 3. Which function display current date?
- Q.3(B) Answer following Questions (Any Two)** (06)
1. Explain Date class with formatting.
 2. Write Steps to create package using RStudio.
 3. What is the use of %d %m %Y in date time class.
 4. What is the use of library() function in R.
- Q.3(C) Answer following Question (Any One)** (05)
1. Explain POSIXct and POSIXlt Classes in R.
 2. What is Package? Explain to create and load a package in R.

Q.4(A) Answer following Questions (03)

1. JSON stands for_____.
2. Which function is used to create a line chart in R?
3. XML stands for_____.

Q.4(B) Answer following Questions (Any Two) (06)

1. How to create pie chart in R?
2. How to write data into .CSV file?
3. Explain Bar Chart.
4. How to create Histogram?

Q.4(C) Answer following Question (Any One) (05)

1. How to read JSON file in R programming? How it convert into Dataframe?
2. Explain CRUD Operations with MySQL database in R.

Q.5(A) Answer following Questions (03)

1. What is the extension of r markdown?
2. Place_____ symbol at the start of the line that will be header in markdown file.
3. What is Meta Data?

Q.5(B) Answer following Questions (Any Two) (06)

1. How to summarized data in R?
2. What is R Analytical Flow?
3. How to summarized data in R?
4. Explain data collection method.

Q.5 (C) Answer following Question (Any One) (05)

1. Write R markdown script to create a data frame.
2. Explain Big Data Analytics using R.
