

M.Sc.(IT & CA) Semester - 3 (CBCS) Examination
Oct/Nov-2021 (OLD COURSE)
PROGRAMMING WITH R FOR DATA SCIENCE (CORE)

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 | (04) |
| | <ol style="list-style-type: none">1. What is R Programing?2. What is use of variable in R programming?3. Full form of CRAN.4. List Data Types in R. | |
| Q.1(B) | Answer the following questions (ANY ONE) | (02) |
| | <ol style="list-style-type: none">1. What is list in R programming?2. What is vector in R programming? | |
| Q.1(C) | Answer the following questions (ANY ONE) | (03) |
| | <ol style="list-style-type: none">1. Explain Data Frame in R.2. What is Vector Element Sorting? Explain. | |
| Q.1(D) | Answer the following questions (ANY ONE) | (05) |
| | <ol style="list-style-type: none">1. Explain R Data Types.2. How to Extract Data from Data Frame? Explain with Example. | |
| Q.2(A) | Answer the following questions | (04) |
| | <ol style="list-style-type: none">1. What is function?2. How to combine string in R programming?3. Explain break statement.4. Which function create factor in R programming? | |
| Q.2(B) | Answer the following questions (ANY ONE) | (02) |
| | <ol style="list-style-type: none">1. Write an example of creating a string in R.2. Explain paste() function . | |
| Q.2(C) | Answer the following questions (ANY ONE) | (03) |
| | <ol style="list-style-type: none">1. Explain format()2. Explain repeat loop with example. | |
| Q.2(D) | Answer the following questions (ANY ONE) | (05) |
| | <ol style="list-style-type: none">1. Explain format () function with example.2. What is factor? Explain in detail. | |
| Q.3(A) | Answer the following questions | (04) |
| | <ol style="list-style-type: none">1. Which function is used to load the packages?2. How do you install packages in R?3. What is Date Class?4. What is instant? | |

- Q.3(B) Answer the following questions (ANY ONE) (02)
1. How to Load Package to Library in R programming?
 2. What is chron package?
- Q.3(C) Answer the following questions (ANY ONE) (03)
1. Explain strftime() and strptime()
 2. Explain Intervals, Duration and Periods.
- Q.3(D) Answer the following questions (ANY ONE) (05)
1. How to Check Available R Packages.
 2. Explain date and time classes.
- Q.4(A) Answer the following questions (04)
1. Full form of CSV.
 2. What is boxplot in R programming?
 3. .xlsx extension use to read which file type.
 4. Which function is used to create line graph?
- Q.4(B) Answer the following questions (ANY ONE) (02)
1. How to Read json File in R programming?
 2. How to read XML file in R programming?
- Q.4(C) Answer the following questions (ANY ONE) (03)
1. How to Read and write CSV File in R programming?
 2. How to Creating the Scatterplot in R programming?
- Q.4(D) Answer the following questions (ANY ONE) (05)
1. Explain about Pie Chart Title and Colours with example.
 2. How to work with Database in R?
- Q.5(A) Answer the following questions (04)
1. What is big data?
 2. How to managing data?
 3. Extension used for file written in R markdown?
 4. What is problem solving?
- Q.5(B) Answer the following questions (ANY ONE) (02)
1. Write attributes of big data.
 2. What are R's challenges for analytics using R programing?
- Q.5(C) Answer the following questions (ANY ONE) (03)
1. What is R Analytical Flow?
 2. Explain Scope of big data analysis using R.
- Q.5(D) Answer the following questions (ANY ONE) (05)
1. Explain big data strategies in R.
 2. Explain Data Summarization and Presentation.
