



FB-003-1083003

Seat No. _____

M. Sc. (IT) (Sem. III) (CBCS) (W.E.F. 2016) Examination

October - 2022

CS - 15 : Programming with R for Data Science

Faculty Code : 003

Subject Code : 1083003

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 (a) Answer the following in **one** sentence : 4
- (1) BI stands for _____.
 - (2) CSV stands for _____.
 - (3) Complex is a data type of R. True or False.
 - (4) CRAN stands for _____.
- (b) Answer in brief : (any **one**) 2
- (1) Explain data types.
 - (2) Explain Matrix.
- (c) Answer in detail : (any **one**) 3
- (1) Explain List.
 - (2) Explain classification of data.
- (d) Write a note on : (any **one**) 5
- (1) Explain Data Frames.
 - (2) Explain Vectors.
- 2 (a) Answer the following in **one** sentence : 4
- (1) The _____ is used to set the levels for the factor.
 - (2) The _____ function is used to split the string with some separator.
 - (3) Sapply stands for _____.
 - (4) Which function is used for delete factor ?

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[Contd...

- (b) Answer in brief : (any **one**) 2
 (1) Explain functions.
 (2) Explain replication.
- (c) Answer in detail : (any **one**) 3
 (1) Explain string and its functions.
 (2) Explain plyr package.
- (d) Write a note on : (any **one**) 5
 (1) Explain loop.
 (2) Explain Factors and levels of factors.
- 3** (a) Answer the following in **one** sentence : 4
 (1) Which function is used to load installed package ?
 (2) _____ display the internal representation of date object.
 (3) GMT stands for _____.
 (4) EST stands for _____.
- (b) Answer in brief : (any **one**) 2
 (1) Explain EST.
 (2) Write the syntax for manually package installation for xml file reading.
- (c) Answer in detail : (any **one**) 3
 (1) Explain Lubridate.
 (2) Write the note on Name space.
- (d) Write a note on : (any **one**) 5
 (1) Explain Dates and Time in R.
 (2) Give the steps for install and load the packages.
- 4** (a) Answer the following in **one** sentence : 4
 (1) JSON stands for _____.
 (2) _____ is used to represent the value as slice of a circle with different colors.
 (3) Which function is used to create histogram.
 (4) Which library is used to read json file.

- (b) Answer in brief : (any one) 2
- (1) Explain how to fetch the R web data.
 - (2) Explain setwd() and getwd().
- (c) Answer in detail : (any one) 3
- (1) Explain histogram.
 - (2) Convert the xml file to a dataframe.
- (d) Write a note on : (any one) 5
- (1) Give the suitable example of converting JSON file into data frame.
 - (2) Explain pie chart using csv file.
- 5 (a) Answer the following in **one** sentence : 4
- (1) OLAP stands for _____.
 - (2) MDM full form _____.
 - (3) The _____ package was designed to be a transparent engine for dynamic report generation with R.
 - (4) Extension of R markdown file is ?
- (b) Answer in brief : (any one) 2
- (1) Explain data summarization.
 - (2) Explain typical analytical process flow.
- (c) Answer in detail : (any one) 3
- (1) Explain Data Collection Methods.
 - (2) Explain qualitative and quantitative data.
- (d) Write a note on : (any one) 5
- (1) Explain Business Analytics Life Cycle steps.
 - (2) Explain report generation using R.
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