

(c) Vectors provide a convenient way to return the results of a statistical computation

(d) Lists can be explicitly created using the list() function

- 1-d. Which of the following return a subset of the columns of a data frame? (CO4) 1
- (a) Select
 - (b) Retrieve
 - (c) Get
 - (d) Set
- 1-e. R comes with a _____ to help you optimize your code and improve its performance. (CO5) 1
- (a) Debugger
 - (b) Monitor
 - (c) Browser
 - (d) Profiler

2. Attempt all parts:-

- 2.a. Demonstrate the use of Assignment statement operator in R. (CO1) 2
- 2.b. How to include single line comment in R? (CO2) 2
- 2.c. Explain setwd() in detail. (CO3) 2
- 2.d. Why is data cleansing important for data visualization? (CO4) 2
- 2.e. What do you mean by Markdown recourses? (CO5) 2

SECTION B

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3. Answer any three of the following:-

- 3-a. Explain the procedure and concepts for reading data in R. (CO1) 5
- 3-b. Elaborate R functions to choose character, numerical input dynamically from user. (CO2) 5
- 3.c. Write R script which include relevant packages and procedure to access .csv and .exl files. Elaborate with suitable example. (CO3) 5
- 3.d. Illustrate with an example how to read a particular file from the working directory. (CO4) 5
- 3.e. List the different file formats for exporting documentation in R. (CO5) 5

SECTION C

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4. Answer any one of the following:-

- 4-a. State the difference between integer & numeric datatypes. Give one example of each. (CO1) 4
- 4-b. How to sink output in R environment? (CO1) 4

5. Answer any one of the following:-

- 5-a. What are the different forms of data types and how to test the data type in R? Give one example for each (CO2) 4
- 5-b. How do you install a package in R? (CO2) 4

6. Answer any one of the following:-

- 6-a. How can you load a .csv file in R? (CO3) 4
- 6-b. List the packages and function required to read Excel sheet data to R object? (CO3) 4

7. Answer any one of the following:-

- 7-a. Explain the different plotting functions. (CO4) 4
- 7-b. Write a code to demonstrate Line chart. (CO4) 4

8. Answer any one of the following:-

- 8-a. Explain the steps for getting started with R Markdown. (CO5) 4
- 8-b. What are the different components of Markdown file? (CO5) 4

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