

SHREE H. N. SHUKLA COLLEGE OF I.T. & MGMT.

(AFFILIATED TO SAURASHTRA UNIVERSITY)



2 – Vaishalinagar
Nr. Amrapali Railway Crossing
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JAH-003-1083003

Seat No. _____

M. Sc. (IT & CA) (Sem. III) (CBCS) Examination

November - 2019

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) Attempt following questions : 4
- (1) Which function is used to delete variable?
 - (2) What is Data ?
 - (3) GUI Stands for _____.
 - (4) _____ and _____ function used to print any type of R data.
- (b) Attempt any one : 2
- (1) List out operators.
 - (2) Use of Variable.
- (c) Attempt any one : 3
- (1) Explain Arithmetic operators with example.
 - (2) Explain lengths (), seq() and c() with example.
- (d) Attempt any one : 5
- (1) List out R Object. Explain any two objects.
 - (2) How many types of data? Explain with example.

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- 2 (a) Attempt following questions : 4
- (1) Use of Mean function.
 - (2) Define Colon (:) in R.
 - (3) What is Variable Scope?
 - (4) Define Paste ()
- (b) Attempt any one : 2
- (1) Use of Environment in R.
 - (2) Give the definition and syntax of R function.
- (c) Attempt any one : 3
- (1) Explain Format Q function with example.
 - (2) List out function Components.
- (d) Attempt any one : 5
- (1) Explain Factor with example.
 - (2) Explain flow control with example.
- 3 (a) Attempt following questions : 4
- (1) EST stands for _____
 - (2) CRAN stands for _____
 - (3) Use of Search () function.
 - (4) _____ % is display 24 hours' time system.
- (b) Attempt any one : 2
- (1) What is UTC?
 - (2) What is the use of packages?
- (c) Attempt any one : 3
- (1) Explain Date Classes with example.
 - (2) What is Parsing Dates?

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(d) Attempt any one : 5

- (1) Describe Date with arithmetic operation.
- (2) Explain Time Zone with strftime and strptime function.

4 (a) Attempt following questions : 4

- (1) XML stands For _____
- (2) _____ package used JSON file.
- (3) _____ argument is used to give a title to the graph.
- (4) Pie chart is created using the _____ function.

(b) Attempt any one : 2

- (1) Give the syntax of Pie chart.
- (2) Explain getwd() and setwd() function.

(c) Attempt any one : 3

- (1) Explain Boxplot() with example.
- (2) Explain Line charts with example.

(d) Attempt any one : 5

- (1) Explain any two chart with example.
- (2) Write down query
 - A - Create CSV file with 20 Records with 5 fields (Eno, Name, Salary, Department, City).
 - B - Read File csv file.
 - C - Display Number of row and Number of Column.
 - D - Get maximum salary from table.
 - E - Get All Employee working with IT Department.

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- 5 (a) Attempt following questions : 4
- (1) What is Data Processing?
 - (2) What is Data?
 - (3) RRE stands for _____
 - (4) What is Dataflow?
- (b) Attempt any one : 2
- (1) Explain Use of analysis Report.
 - (2) Difference : Data and Big Data.
- (c) Attempt any one : 3
- (1) Explain data manipulation.
 - (2) Explain qualitative and Quantitative data.
- (d) Attempt any one : 5
- (1) Describe various types of Data collection Method.
 - (2) What is Roll of Analysis in R?

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[250 / 5-10]