ITM(SLS) BARODA UNIVERSITY

SCHOOL OF COMPUTER SCIENCE, ENGINEERING AND TECHNOLOGY

B.Tech CSE/AI/IT/CS
Semester:1

Subject:R Programming for Data
Course Code: C21X0C3
Unit wise Question Bank

Unit 1	
Sr.No	**Question**
1	Explain various operators in R.
2	Compare Arithmetic and Logical Operators in R.
3	Explain various features of R language.
4.	Compare Arithmetic and boolean operators in R.
5.	Explain following functions in R with examples. 1. round() 2. sqrt() 3. abs() 4. cos() 5. exp()
Unit 2	
1	Explain Datatypes in R.
2	Write various rules for variable declaration in R.
3	Define data structure. Explain following data structures in R with example. 1. Vector 2. Matrix 3. List 4. Data frame 5. Factor
4	Explain in detail about the data frame and matrix in R.
5	Compare Matrix and List data structures in R.

6	Explain rbind() and cbind() functions in R. When you have to use rbind() and cbind()?.
7	Write the code to merge two lists in R.
8	Explain following predefined lists in R. 1. letters 2. month.abb 3. month.name 4. LETTERS
9.	How to perform slicing of a dataframe in R?
10	How to perform subset operation of a dataframe in R with subset() function.?
11	What is a factor? How would you create a factor in R?

Unit 3

1	How Does R handle missing values ? Explain with an example.
2	Differentiate between R script and Markdown file.

Unit 4

1	Explain descriptive statistics.
2	Explain the central tendency of a data using the following functions in R. mean() median() mode()
3.	What are different measures of variability.?
4.	Explain various functions in R. range() quantile() IQR()
5	What is variance of the data? How to calculate variance in R.
6	Explain standard deviation of the data using sd() function in R.

7	Define skew and Kurtois.Compare skewness and kurtosis of dataset? Which functions are used in R to calculate the skewness and kurtosis of the dataset

8	Compare following R functions.
	   1. describe()
	   2. describeBy()
	   3. summary()

9	Explain correlation of different variables in R using cor() functions.