1. Differentiate R Console and R studio.
2. List out the rules to define a variable name in R.
3. Illustrate general format of factors in R.
4. Compare .csv files and. tsv files.
5. Relate charts and graphs.
6. Who uses R?
7. Define R list
8. Show the value of f (2) for the following R code.

b <- 4

f <- function (a)

{

b <- 3

b^3 + g (a)

}

g <- function (a)

{

9. How can you read .xlsx file in R
10. List the importance of data visualization.

1. Categorize various objects in R with example
2. Identify commands used in R Programming
3. Distinguish the data structures in R with example
4. Illustrate data frame concept in R and clarify how you will merge two data frames with example
5. Experiment with databases in R programming
6. Construct the data visualization techniques for student performance in R programming
7. Experiment with Xml and Json data in R programming
8. Elaborate getting data into R with examples?

1. Examine the concept of vector in R. Explain how you can find the index of maximum and minimum value in a matrix using R.

2. Analyze the given dataset and solve the following questions in R.

(i)   How can you load a .csv file in R?

(ii)   Get the highest salary

(iii)   Organize all the IT department personnel

(iv)   Get people who earn more than 600 salaries in IT department

(v)   Find out who joined after 2014

id	name	salary	start_date	dept
1	Rick	623.3	1/1/2012	IT
2	Dan	515.2	9/23/2013	Operations
3	Michelle	611	11/15/2014	IT
4	Ryan	729	5/11/2014	HR
5	Gary	843.25	3/27/2015	Finance
6	Nina	578	5/21/2013	IT
7	Simon	632.8	7/30/2013	Operations
8	Guru	722.5	6/17/2014	Finance

3. Analyze R vector object creation, accessing and manipulating vector elements in detail with example. In the vector v <- c(1,12,3,14,-1,-3) count the number of vector values present in range between -1 to 8 using R

4. Examine the following air quality data set and visualize data set using bar chart, box plots.

Ozone	Solar R.	Wind	Temp	Month	Day
41	190	7.4	67	5	1
36	118	8	72	5	2
12	149	12.6	74	5	3
18	313	11.5	62	5	4

| NA | NA | 14.3 | 56 | 5 | 5 |
| 28 | NA | 14.9 | 66 | 5 | 6 |