



- 3. a) What is the output of the following built-in constants ?
 - a) LETTERS
 - b) letters
 - c) month.name
 - d) month.abb
- b) Explain briefly types of data in descriptive statistics.
- c) Briefly explain any three graphics used for analysis in R. (4+5+6)

Unit – II

- 4. a) Explain the functions of Database Management System.
- b) Briefly explain Hierarchical model.
- c) Explain the features of MYSQL. (5+5+5)
- 5. a) Explain the characteristics of Database Management System.
- b) Explain Network model.
- c) Write a note on types of DBMS Architecture. (5+5+5)

Unit – III

- 6. a) Explain ORDER BY clause and GROUP BY clause with the help of examples.
- b) Write a note on Granting and Revoking permissions.
- c) Explain the steps involved in Processing an SQL Statement. (4+5+6)
- 7. a) Explain the following statements with an example :
 - i) CREATE
 - ii) INSERT
- b) Explain any five Aggregate functions.
- c) Write a note on JOIN operation in SQL. (4+5+6)

Unit – IV

- 8. a) With syntax and programming example, explain DO statement in SAS.
- b) How do you import a delimited file into SAS ? Explain with an example.
- c) Briefly explain SAS architecture with diagram. (5+5+5)
- 9. a) Explain different datatypes for SAS data sets.
- b) How do you merge data sets in SAS ? Explain.
- c) With syntax and programming example, explain any two forms of IF statement in SAS. (5+5+5)