

23BDS201
UG PROGRAM (4 YEARS HONOURS) WITH SINGLE MAJOR
AT THE END OF SECOND SEMESTER
DATA SCIENCE-INTRODUCTION TO DATA SCIENCE AND R PROGRAMMING
(B.Sc HONOURS-MAJOR)
(w.e.f. Admitted Batch 2023-24)

Time: 3Hours

Maximum: 70 marks

SECTION – A

5 x 4 = 20

Answer any FIVE Questions.

1. Explain about R Nuts and Bolts.
2. How do you get the Data in and out of R? Explain.
3. What is Machine Learning? Why data Scientists use Machine Learning.
4. Write about the Problems faced when handling large data.
5. Explain about Scoping rules in R Programming.
6. Explain about Interfaces in R Programming.
7. How do you handle large Data on a Single Computer?
8. How do you manage Data Frames with dplyr.

SECTION – B

Answer All the Questions.

5 x 10 = 50

9. a) Define Big Data. Write the Benefits and Uses of Big Data.
 (Or)
 b) Explain in detail about history and overview of R.
10. a) Explain in brief about Data Science Process.
 (Or)
 b) What is use of reader package in R? Explain.
11. a) Write the Applications of Machine Learning in Data Science.
 (Or)
 b) Explain about Types of Machine Learning.
12. a) What are the General Techniques for handling large volumes of data? Explain.
 (Or)
 b) Write the Programming tips for dealing with Large data sets.
13. a) Explain about Control Structures in R Programming.
 (Or)
 b) Write about Debugging and Simulation.