

23BDS303

UG PROGRAM (4 YEARS HONOURS) WITH SINGLE MAJOR
AT THE END OF THIRD SEMESTER
DATA SCIENCE-DATA MINING TECHNIQUES USING R
(B.Sc HONOURS-MAJOR)
(w.e.f. Admitted Batch 2023-24)

Time: 3Hours

Maximum: 70 marks

Section - A

Answer any Five Questions.

5 x 4 = 20

1. What are the differences between KDD and Data Mining?
2. How do you integrate Data Mining System with a Data Warehouse?
3. What are the frequent Itemset Mining Methods? Explain.
4. Discuss about different approaches to Decision Tree Pruning.
5. Explain about Association rule mining.
6. Write a short note on Data Mining Knowledge Representation.
7. What are the Attribute Selection Measures? Explain.
8. Explain about Partitioning Methods in Cluster Analysis.

Section - B

Answer All the Questions.

5 x 10 = 50

9. a) What are different Stages of the Data Mining Process? Explain.
(Or)
b) Explain in detail about Data Mining Techniques.
10. a) What are the steps in Data Pre-processing? Explain.
(Or)
b) Explain in detail about Dimensionality Reduction.
11. a) What is AOI? Write the steps for efficient implement of AOI? Explain.
(Or)
b) Explain about Apriori Algorithm. How to improve efficiency of Apriori Algorithm?
12. a) Explain about Decision Tree Induction Algorithm.
(Or)
b) Discuss about Bayes Classification Methods.
13. a) Explain about the case study on Market Basket Analysis.
(Or)
b) What are the different types of Cluster Analysis? Explain.