

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024
(Regular/Improvement/Supplementary)

COMPUTER SCIENCE
FCSS3E02-DATA WAREHOUSING AND DATA MINING

Time: 3 Hours**Maximum Weightage: 30****Section A: Short answer questions. Answer any *four* questions. Each carries *two* weightage.**

1. Differentiate between operational database system and data warehouse.
2. What is the process of data cleaning?
3. Brief the roles of associative classification in rule mining.
4. Write on market basket analysis.
5. What is slicing in OLAP?
6. Mention the different discretization techniques.
7. How does backpropagation algorithm work?

(4 × 2 = 8 weightage)

Section B: Short essay questions. Answer any *four* questions. Each carries *three* weightage.

8. What is data cube in data warehousing?
9. Detail the major issues of data mining.
10. Write on SVM and its working.
11. Enumerate the different regression types.
12. Explain complex data object in data mining.
13. It is difficult to cluster data in higher dimensional spaces. Explain.
14. Why is social network analysis used?

(4 × 3 = 12 weightage)

Section C: Essay questions. Answer any *two* questions. Each carries *five* weightage.

15. Explain in detail the various types of Data Warehouse Architecture.
16. What is association rule mining? Explain Apriori algorithm.
17. Write in detail on classification and prediction in data mining. What are the differences between classification problem and prediction problem?
18. Write an essay on clustering and types of clustering in data mining.

(2 × 5 = 10 weightage)