

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023
(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. List the various processes involved in Data Warehousing.
2. Why K-NN is called lazy learner?
3. Differentiate between support and confidence.
4. What is slice and dice in data analysis?
5. Mention the five major steps of data preprocessing.
6. Point out the differences between database and data warehouse with examples.
7. Write the advantages of back propagation network.

(4 × 2 = 8 weightage)

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

8. What are OLAP operations in multidimensional data model?
9. Enumerate the different data mining functionalities.
10. Explain Bayesian classification in data mining.
11. Describe the various steps to detect outliers in a data set.
12. Describe the properties of Graph mining algorithms.
13. Write the benefits of social network analysis.
14. Explain the techniques for summarizing quantitative and categorical data.

(4 × 3 = 12 weightage)

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

15. Write a detailed account on association learning and the working of association rule learning.
16. What is decision tree? Explain prepruning and postpruning approaches in decision tree algorithm.
17. Explain about regression analysis. What are different regression algorithms?
18. What is spatial mining in data mining? Describe the different methods used for spatial data mining.

(2 × 5 = 10 weightage)