

22641

M. Tech. 1st Semester (CSE) CBCS  
Scheme Examination – January, 2023

DATA WAREHOUSE AND MINING

Paper : MTCSE21C4

Time : Three hours ]

[ Maximum Marks : 100

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

*Note : Attempt five questions by selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.*

1. (a) What is OLAP ?
- (b) Explain association rules for mining.
- (c) What is KDD ? Write various steps in it.
- (d) Explain Web Content Mining.

UNIT – I

2. What is Data Warehousing ? List the process that is involved in Data Warehousing. Also, give the design guidelines for data warehouse implementation.

3. What is Data Cube ? Explain various operations in it in detail.

#### **UNIT – II**

4. Explain Apriori algorithms. How would you evaluate the performance of algorithms ?
5. What is Dynamic Item set Counting (DIC) ? Explain it by taking a suitable example.

#### **UNIT – III**

6. Explain the Naïve Bayes method by taking a suitable example.
7. Explain tree induction algorithms. Also, explain the split algorithm based on information theory the split algorithm based on the Gini index.

#### **UNIT – IV**

8. What are the methods for dealing with large databases ? Explain partitional, hierarchical methods.
9. Write the notes on the following :
  - (a) Density-based methods
  - (b) Locality and Hierarchy in the web