

# PTU QUESTION PAPER

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Artificial Intelligence (AI) and Data Science) (Sem.-6)

## DATA MINING AND DATA WAREHOUSE

Subject Code : BTCS 702/18

M.Code : 93953

Date of Examination : 18-05-2024

Max. Marks : 60

Time : 3 Hrs.

### INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

### SECTION-A

#### 1. Write briefly :

- a) Define Data Warehousing.
- b) What are Data cube operations?
- c) ROLAP *versus* MOLAP.
- d) Discuss Data Quality.
- e) What is Gini Index?
- f) What are Decision Trees?
- g) Give an overview of predictive accuracy.
- h) Define Large Databases.
- i) Write about Search Engine.
- j) Define Web Content Mining.

### SECTION-B

2. Explain the concept of OLAP and its significance in data analysis.
3. Briefly explain the primary tasks involved in data mining.
4. What is direct hashing and pruning?
5. What is the fundamental principle of ranking web page?
6. Discuss the role of web mining software.

### SECTION-C

7. Discuss the basic concept of the Naive algorithm in association rules mining.
8. How would you assess the performance of association rules mining algorithms?
9. Explain the concept of cluster analysis. Discuss the partition method in cluster analysis.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**