

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE) (AI&ML) (Sem-6)

DATA MINING AND DATA WAREHOUSING

Subject Code : BTCS-702-18

M.Code : 93396

Date of Examination : 21-06-2023

Time : 3 Hrs.

Max. Marks : 60

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 :

- How is data warehouse different from a database?
- What are data cube operations?
- List few reasons to perform data pre-processing.
- What do you mean by a frequent item set?
- What is the difference between classification and prediction?
- What is Gini index?
- Explain partitioning method of clustering in brief.
- What are crawlers in search engine?
- How web data mining differ from regular data mining?
- List few web mining tools and software.

SECTION-B

2. What do you mean by Multi-Dimensional Data Model and OLAP? Differentiate between MOLAP, ROLAP & HOLAP.
3. Explain FP-Growth Algorithm in detail.
4. What is classification by Decision tree induction method and Naive Bayes classification?
5. How does a search engine works? Describe the architecture of a typical web search engine.
6. What do you mean by web data mining? What is the difference between web content mining and web structure mining?

SECTION-C

7. What is Data mining? Discuss the importance and major issues of data mining.
8. **Write short notes on the following:**
 - a) Association rule mining
 - b) Ranking of web pages
 - c) Web mining software
9. What do you mean by cluster analysis? State the categories of clustering methods. How do you deal with clustering for large database?

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.