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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. (CSE Engg.) Big Data (Campus) (Sem.–3)

INFORMATION RETRIEVAL AND DATA MINING

Subject Code : CSBE-215

M.Code : 75065

Time : 3 Hrs. Max. Marks : 50

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE questions out of EIGHT questions.**
2. **Each question carries TEN marks.**

Q1 Give the architecture of a typical data mining systems. What are the steps in data mining process?

Q2 a. Explain the review of Indexing Techniques in Information Retrieval.

b. What is tokenization in text mining? Give Example.

Q3 What are the association rules in data mining? How it is used for mining models to analyze data for patterns from large databases?

Q4 Demonstrate how Bayesian classification helps in 'predicting class' membership probabilities.

Q5 Write a short note on following :

a. PLSA

b. Query Expansion

Q6 a. Define clustering. Explain the Partitioning method of clustering?.

b. Discuss the types of data in cluster analysis.

Q7 Give the introduction to Boolean based retrieval model. How the retrieval performance is measured?

Q8 What is a collaborative filtering recommender system? How they are capable of predicting the future preference of a set of items for a user?

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.

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