**Code No. E-12013/CBCS**

# FACULTY OF INFORMATICS

**M.C.A. (3 Years Course) III- Semester (CBCS) (Backlog) (New) Examination, October/November 2023**

**Subject: Information Retrieval Systems**

**Time: 3 Hours** **Max. Marks: 70**

**Note: I. Answer one question from each unit. All questions carry equal marks.**
**II. Missing data, if any, may be suitably assumed.**

**Unit – I**

1. (a) Give an example of similarity coefficients.
   (b) Elaborate the idea for training data for probabilistic retrieval.

**(OR)**

2. (a) Explain how to incorporate term frequency.
   (b) Describe term to document mapping with an example.

**Unit-II**

3. (a) Elucidate the relevance feedback in the vector space model.
   (b) Write about clustering without a precomputed matrix.

**(OR)**

4. (a) Write the steps for logistic regression.
   (b) Explain using a thesauri to expand a query.

**Unit-III**

5. (a) Explain R-distance method.
   (b) Write notes on complex phrases.

**(OR)**

6. (a) Discuss how to translate a document.
   (b) Describe the language models for CLIR.

**Unit-IV**

7. (a) Write the steps to build an inverted index.
   (b) Give an overview of signature files.

**(OR)**

8. (a) Explain how to find similar duplicates through shingles.
   (b) Give an account of vector space simplications.

**Unit-V**

9. (a) Describe bibliographic search with unchanged SQL.
   (b) Elucidate the proximity searches.

**(OR)**

10. (a) Elaborate distributed information retrieval system model.
    (b) Discuss high precision search method.

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