FACULTY OF INFORMATICS
M.C.A. (2 Years Course) III- Semester (CBCS) (Main) Examination, April/May 2023

Subject: Information Retrieval System

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) Define Information Retrieval. Write briefly about basic process of document routing algorithm.
   b) Write about Vector space model with one example.

(OR)

2. a) Explain about Non-Binary Independence model.
   b) Describe about Language model.

Unit – II

3. Define the following terms:
   a) Number of feedback iterations.
   b) User interaction.

(OR)

4. a) Write in detail about Regression Analysis.
   b) D'Amore and Mah.

Unit – III

5. a) Explain briefly about R distance measure.
   b) Write in detail about Semantic network.

(OR)

6. a) Explain briefly about K-distance Measure.
   b) Write about Parsing of single term performed in IR.

Unit – IV

7. a) Explain the construction of Inverted index.
   b) Write about duplicate document detection.

(OR)

8. a) Define query processing. Explain in detail about concept of Query Processing.
   b) Write about Signature Files.

Unit – V

9. a) Write about Historical Progression.
   b) Explain about Semi Structured search using relational Schema.

(OR)

10. a) How to compute relevance using unchanged SQL?
    b) Discuss in detail about page rank.

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