

Duration: - 3 Hours

Marks: 80 Marks

NB: - Question 1 is compulsory

Solve any four questions from Question no. 1.

Solve any three questions from the remaining.

- 1 a. Describe the differences between information and data in the context of Information Retrieval. **20 (4x5)**
 - b. Explain the process of Structured text retrieval model.
 - c. List the key components of the vector space model.
 - d. What are different types of queries in Information Retrieval?
 - e. Explain multimedia indexing approach?
 - 2 a. What is Information Retrieval Model? Explain the taxonomy of Information Retrieval Models **10**
 - b. Discuss the relative advantages and disadvantages of the Classic Information Retrieval compared to the Alternative Probabilistic Models. Is the probabilistic model always superior to the Classic Information Retrieval? **10**
 - 3 a. Explain in detail how information retrieval systems utilize user feedback to enhance the search results. **10**
 - b. Explain the role of a suffix tree in the indexing of Information Retrieval, Pattern matching, Structured queries with example **10**
 - 4 a. Explain the function and advantages of using parametric and zone indexes in enhancing information retrieval. **10**
 - b. What is the significance tf-idf weight? Can the tf-idf weight of a term in a document exceed 1? Why? **10**
 - 5 a. Compare and contrast evaluation of ranked and unranked Retrieval Results? **10**
 - b. Explain the process of query processing in distributed information retrieval systems. **10**
 - 6 Write short notes on any two **20**
 - a. Inexact top K document retrieval
 - b. Automatic local analysis vs Automatic global analysis
 - c. Latent Semantic Indexing Model
 - d. Flat browsing vs hypertext browsing model.
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