

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. Define information retrieval and list down classification of information retrieval systems? **20**
(4x5)
- b. Explain the process of Structured Text retrieval model.
- c. Explain the taxonomy of Information retrieval Model.
- d. Explain the role of pattern matching in Information retrieval.
- e. Explain multimedia indexing approach ?
- 2 a. Illustrate information retrieval system? Discuss its relationship to DBMS, digital libraries and data warehouses? **10**
- b. Explain in detail about vector-space retrieval models with an example? Is the vector space model always superior to the Boolean model? **10**
- 3 a. What is local and global analysis and Differentiate between automatic local analysis and global analysis? **10**
- b. What is the role of suffix array and suffix tree in information retrieval system with example. **10**
- 4 a. What is the inverted file? Explain in detail with example. **10**
- b. What is the significance of 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. **10**
Define multimedia information retrieval. Discuss indexing and searching?
- 6 Write short notes on any two **20**
- a. Inexact top K document retrieval
- b. Parametric and zone indices
- c. Latent Semantic Indexing Model
- d. Flat browsing vs hypertext browsing model.