

**N.B**

1. **Q.1 is compulsory**
2. **Attempt any three from the remaining five questions.**
3. **Each Question carries 20 marks.**
4. **Assume suitable data, if required and state it clearly.**

Q 1 Attempt **any four** (20 marks)

- a. Illustrate different types of keyword-based queries.
- b. Compare boolean model and vector model
- c. Discuss concept of Text search engine
- d. Explain inverted file indexing with suitable examples

Q 2 . Attempt all. (20 marks)

- a. State the different types of queries. Explain the pattern matching query concept with an example.
- b. Explain the taxonomy of Information retrieval model with classification diagram.

Q3 . Attempt all. (20 marks)

- a. What is the significance of **tf** and **idf**? How can you calculate tf and idf in a vector model?
- b. Explain ranking and similarity measures with suitable example.

Q.4. Attempt all. (20 marks)

- a. Describe the process of creating an inverted index. How can this be optimized with the help of block addressing?
- b. Discuss starting points. Explain list of collection and overviews in detail.

Q 5. Attempt all. (20 marks)

- a. What is flat browsing and hypertext browsing? Explain.
- b. Define Multimedia information retrieval. Discuss indexing and searching.

Q 6 . Write short not on : ( 20 marks)

- a. Interface support for the search process
- b. Sequential searching
- c. User relevance feedback
- d. Information Retrieval in digital libraries.

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