

Time: 3 Hours

Max. Marks: 80

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 all.

(20 marks)

- a. Discuss Objective of IRS
- b. Define data modeling ? Explain any two types of data models.
- c. Compare and contrast Proximity Queries and Wildcard Queries .
- d. What is the purpose of a search engine?. List the steps of search operation by search engine.

Q 2. Attempt all.

(20 marks)

- a. What is User relevance feedback: How this will contribute to get results.
- b. Discuss various phases of text preprocessing within a document. Discuss any one application for the same.

Q3. Attempt all.

(20 marks)

- a. Discuss automatic local analysis, with suitable examples.
- b. What is human-computer interaction? List and discuss any four design principles for information access interfaces

Q.4. Attempt all.

(20 marks)

- a. What is the purpose of using keyword based query? Briefly explain any 3 types of keyword based queries.
- b. What is the starting point? Explain list of collections and overviews in detail.

Q 5. Attempt all.

(20 marks)

- a. Summarize two visualization techniques with respect to user interface design.
- b. Describe the process of creating an inverted index with an example. How can this process be optimized using block addressing?

Q 6. Write short note on: **(any two)**

(20 marks)

- a. Sequential Search
- b. Document clustering
- c. Interface support for the search process
- d. Multimedia indexing