

[Time: 3 Hours]

[Marks:80]

- N.B:
1. **Q 1 is compulsory.**
 2. **Attempt any three from the remaining five questions.**
 3. **Each Question carries equal marks.**

- Q.1 Answers all 20
- a) Explain logical view of a document with diagram.
 - b) Differentiate between data retrieval and information retrieval.
 - c) How does search engine retrieves the information?
 - d) Describe metasearchers and it merits with example.
- Q.2 Answers all 20
- a) Explain taxonomy of information retrieval model with classification diagram.
 - b) Explain various phases of text preprocessing within a document. Discuss any one application for same.
- Q. 3 Answers all 20
- a) Discuss Huffman Algorithm in detail with suitable example.
 - b) What is the purpose of using keyword based query? Briefly explain any 3 types of keyword based queries.
- Q. 4 Answers all 20
- a) What is human-computer interaction? List and discuss any four design principles of human computer interaction.
 - b) Describe the process of creating inverted index with example. How this process can be optimized using block addressing?
- Q. 5 Answers all 20
- a) What is starting point? Explain list of collections and overviews in detail.
 - b) Discuss sequential searching. Explain any one algorithm used in sequential searching.
- Q.6 Write a note on: (Any two) 20
- a) Interface support for the search process
 - b) Multimedia indexing approach
 - c) Document clustering
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