BE/ IT /Sem VII/ R-19/ IRS

[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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