14/12/2024 IT SEM-VII C SCHEME IRS (DLOC-IV) QP CODE: 10065526

Time: 3-Hours Max. Marks: 80 N.B 1. Q.1 is compulsory 2. Attempt any three from the remaining five questions. 3. Assume suitable data, if required and state it clearly. Q1 Attempt all a. Discuss Objective of IRS. b. Illustrate different markup languages with its applications. c. Explain the process of Structured Text retrieval model. d. Illustrate different types of keyword-based queries. Q 2. Attempt all. a. Consider the following documents D1: I went to the park to play D2: park is nearby to play D3: going to the park is fun Q: park nearby play Apply vector model to rank the above documents. b. Write different issues for modeling natural language and find solution for it. **20M** Q3. Attempt all. a. Explain Suffixes, Suffix Trie and Suffix tree, Suffix array and Supra Index with example. b. Define Multimedia information retrieval. Discuss Multimedia indexing and searching. Q 4. Attempt all. **20M** a. Discuss Huffman Algorithm in detail with suitable example b. What is inverted Index? Describe the process of creating an inverted index without stop words for the following example. This is a text. A text has many words. Words are made from letters. Q.5. Attempt all. **20M** a. Discuss various phases of text preprocessing within a document. Discuss any one application for the same. Explain Probabilistic Retrieval Model. Compare and contrast Belief Network Model and Inference Network Model Q 6. Write short note **20M** a. User relevance feedback b. Information Retrieval in digital libraries Starting points Interface support for the search process

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