

Question Bank for IAE-I

Information Retrieval

1. Attempt ALL 2X5
- a) Define information retrieval
 - b) What are the applications of IR
 - c) What are the areas of AI for information retrieval?
 - d) List the issues in information retrieval system.
 - e) Define relevance.
 - f) Define indexing & document indexing.
 - g) Define web search and web search engine
 - h) What are the components of search engine?
 - i) Define web crawler.
 - j) What are the disadvantages of Boolean model?
 - k) How can you calculate tf and idf in vector model?
 - l) What is meant by query processing?
 - m) Explain Precision and Recall.
 - n) Define Incorporating Term Frequency with example.
 - o) Describe various types of Queries with illustrations.
 - p) Explain difference between data retrieval and information retrieval.
2. Attempt the following
- a) Discuss the influence of AI in Information Retrieval
 - b) Explain the vector space model of information retrieval
 - c) Explain the Boolean model of information retrieval
 - d) Explain the probabilistic model of information retrieval
 - e) Outline the process of IR in brief
 - f) What are the key steps for IR process? Explain the query processing in brief.
 - g) Write short notes on trends and research issues in IR with respect to Semantic Search and Natural Language Processing (NLP) Integration
 - h) Here are two documents. Document A: *This is the first document* and document B: *This document is the second document* and query: *the document* Sketch the term-frequency matrix. Also calculate the tf , idf and $tf - idf$