# INFORMATION RETRIEVAL SYSTEM

# QUESTION BANK

## UNIT-1:

1. Explain conceptual models and File structures of domain analysis in the design of IR systems.
2. What are various Query, term and document operations of domain analysis in the design of IR systems.
3. Compare and contrast IR systems with other types of information systems.
4. Explain the different parameters used for IR system evaluation with formulas and examples.
5. Discuss the importance of data structures in IR systems with examples.
6. Explain the types of algorithms used in Informational Retrieval systems.
7. Explain the basic concepts related to strings, regular expressions, and finite automata in the context of Information Retrieval.

## UNIT-2:

1. Explain various data structure used in implementing Inverted files.
2. Describe in detail the process of building an inverted file using a sorted array. Include an example.
3. What are the modifications to the basic inverted file technique and discuss about producing inverted files without sorting.
4. Explain the FAST-INVERSION (FAST-INV) algorithm used for producing a sorted array inverted file.
5. Explain the concept of Sequential Signature Files (SSF) in Information Retrieval.
6. Explain the different compression techniques involved in SSF.
7. Explain the concept of vertical partitioning in signature files without compression.
8. Explain CBS in vertical partitioning with compression.
9. What is DCBS and No False Drop method in vertical partitioning.
10. What is data-independent partitioning in horizontal partitioning of signature files?
11. What are two-level signature files and S-Trees in horizontal partitioning.