Paper / Subject Code: 42178 / INFORMATION RETRIEVAL (DLOC - IV)

B.E./Sem-VII/COMP/C-Scheme/NOV-2025/20-11-2025

Duration: - 3 Hours **Marks: 80 Marks**

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NB: - Question 1 is compulsory
Solve any four questions from Question no. 1.
Solve any three questions from the remaining.

Q1.		Solve any four	20 (4x5)
1	a.	Draw and elaborate on the taxonomy of Information retrieval Model.	
	b.	Compare and contrast Boolean Model vs Vector Space Model.	
	c.	With examples, illustrate the different types of keyword-based queries.	
	d.	Explain the significance of User Relevance feedback in an IR system.	
	e.	Specify the process of Structured Text retrieval model.	
2	a.	State the significance of tf and idf? Elaborate on how you can calculate tf and idf in a vector model?	10
	b.	Specify the need for inverted file indexing methods. Further explain inverted file indexing with suitable examples.	10
3	a	List the different types of queries. Elaborate on the pattern matching query concept with an example.	10
	b.	Differentiate between automatic local analysis and global analysis? Elaborate on any one with an example	10
4	a.	Define the role of suffix array and suffix tree in information retrieval system. Explain suffix array and suffix tree respectively with an example each.	10
	b.	What is Latent Semantic Indexing Model. Mention the advantages and disadvantages of Latent Semantic Indexing Model?	10
5	a.	What is meant by Multimedia information retrieval. Explain with an example. Elaborate on the process of multimedia indexing and searching.	10
	b.	Differentiate between Unranked Retrieval Models and Ranked Retrieval Models. Also give examples of each case with a neat diagram.	10
6		Write short notes on any two	20
	a.	Sequential Searching	
	b.	Distributed Information Retrieval	
	c.	Parametric and zone indices	
	d.	Information Retrieval in digital libraries	

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