Code No.: CS624PE

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## CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

III-B.TECH-II-Semester End Examinations (Regular) - June- 2024 INFORMATION RETRIEVAL SYSTEM

[Time: 3 Hours] (CSE)

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	PART-A	(20 Marks)	
l. a) b) c) d) e) f) g) h) i)	What is the purpose of query expansion in an Information Retrieval System? What role do Data Warehouses play in the context of Information Retrieval? What is automatic indexing? Define N-Gram data structures. Define the concept indexing. What are the different clustering algorithms? What is relevance feedback? Discuss two commonly used information visualization technologies.		[2M] [2M] [2M] [2M] [2M] [2M] [2M] [2M]
	PART-B	PART-B (50 Marks)	
2.	System,	gement	[5M]
	b). Explain the item normalization process.		[5M]
3.	OR Explain search capabilities of Information Retrieval Systems, elucidating how eac augments the search process through relevant examples.	h capability	[10M]
4.	Explain the concept of data structure and its significance in computer science. Provexamples of any two types of data structures.	vide	[10M]
5.	Explain the following: a) Porter Stemming Algorithm b) Dictionary Look-up Stemmers.		[5M] [5M]
6.	a) Explain the significance of Automatic indexing.		[5M]
	b) Explain hierarchical clustering approach for document clustering.  OR		[5M]
	Describe the primary differences between Indexing by Term and Indexing by Conc Explain which method provides better results for "Natural Language Queries" and your answer.	ept. [ justify	[10M]

8.	Explain the concept of "Similarity Measures and Ranking" in information retrieval.  OR	[10M]
9.	Explain in detail about Information Visualization technologies.	[10M]
١0.	Apply and demonstrate the techniques involved in software text search algorithms.  OR	[10M]
11.	Evaluate and summarize Hardware Text Search system.	[10M]

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