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113 Reg. No.: Question Paper Code: 90397 B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022. Seventh/Eighth Semester Computer Science and Engineering CS 8080 - INFORMATION RETRIEVAL TECHNIQUES (Common to: Computer and Communication Engineering/ Information Technology) (Regulations 2017) Time: Three hours Maximum: 100 marks 1. Give the components of Search Engine and the Performance measures. State the purpose of Query Interface. 3. What is meant by Zone Index? 4. Construct the Vector space model representation. Define meta crawler. List any two major meta crawlers. 6. Mention the use of implementing own DNS resolver as a component of the web State the discrete-time stochastic process. What is the use of blockrank? Differentiate supervised learning and unsupervised learning. 10. Mention the use of dendrogram.

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				PART B — $(5 \times 13 = 65 \text{ marks})$	M.F. L
	11.	(a)	(i)	Demonstrate the working of IR architecture with a diagram.	(6)
			(ii)	Discuss about how N-gram data structure can be used stemming.	for (7)
				Or	
		(b)	(i)	Compare in detail Information Retrieval and Web Search examples.	with (8)
			(ii)	Describe the various components of a Search Engine.	(5)
	12.	(a)	(i)	Explain in detail about binary independence model for Probab Ranking Principle (PRP).	ility (7)
			(ii)	Analyze how the query generation probability for query likelil model can be estimated.	100d (6)
				Or	
		(b)	(i)	Explain Latent Semantic Indexing and latent semantic space of an illustration.	with (8)
			(ii)	Analyze the use of LSI in Information Retrieval. What is its nee synonyms and semantic relatedness?	ed in (5)
W	13.	(a)	(i) (ii)	Evaluate the Agglomerative Clustering and HAC in detail. Discuss the Types of data and evaluate it using any one cluster	(7)
				techniques.	(6)
				Or	
		(b)	(i)	Analyze the working of Nearest Neighbor algorithm along with representation.	one (7)
			(ii)	Analyze the K-Means Clustering method and the problems in it.	(6)
	14.	(a)	Dev by t	elop a web search structure for searching a newly hosted web dor he naïve user with step by step procedure.	nain
				Or	
		(b)	Des	cribe the following with suitable examples:	
			(i)	Bag of Words and Shingling	(7)
			(ii)	Hashing Min Hash and Sim Hash	(6)
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15		strate the advantages and disadvantages of Content based and aborative filtering recommendation system.	
1		Or	
	(b) (i)	Describe the rules of High Level Architecture. (7)	
	(ii)	Difference between Hybrid and Collaborative Recommendation. (6)	
		PART C — $(1 \times 15 = 15 \text{ marks})$	
16.	(a) (i)	Grade the optimization techniques available for search engine and	
		rank them by your justification. (9)	
	(ii)	Present and anlyse Web Crawler Taxonomy in detail. (6)	
		Or	
	(b) Dem	nonstrate Recommendation based on User Ratings using appropriate	
		mple. Narrate in detail about a model for Recommendation system.	
		(15)	
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