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inem (7)	Dogu		12. (a) (b) Discuss in dotal about term frequency and Inva
			(ii) Compute TP-IDE given a dicument containing form
			Question Paper Code: 50410
(8)		08.178	Question Laper Code . 50110
		B.H	E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023
	liw a	apac.	costal box so Seventh/Eighth Semester da mislosid (6)
			Computer Science and Engineering
9000		C	S 8080 — INFORMATION RETRIEVAL TECHNIQUES
(Co	mmo	n to (Computer and Communication Engineering/Information Technology)
			(Regulations 2017)
Time	e : Th	ree h	ours Maximum: 100 marks
			Answer ALL questions. Oppose entired (d)
			PART A — (10 × 2 = 20 marks)
1.	Wha	it are	the impacts of information retrieval on the web?
2.			he issues in information retrieval systems.
3.			t a vector space model representation.
4.			cosine similarity measure.
5.			nash based dictionary in indexing?
6.			late range queries and hearest heighbor queries.
7.			the challenges in data traversing by search engines? the use of Web indexing and inversion of indexing process.
8. 9.			some advantages of Mobile Recommendation system.
10.			t Collaborative and Content based recommendation system.
10.	0011	002.00	PART B — $(5 \times 13 = 65 \text{ marks})$
11.	(a)	(i)	Compare in detail about Information Retrieval and Web Search with examples. (8)
		(ii)	Summarize the functions and features of Information Retrieval Systems. (5)
			Or
	(b)	(i)	Demonstrate the working of IR architecture with a diagram. (6)
0111	98	(ii)	Infer how designing parsing and scoring functions works in detail(7)

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12. (a) (i)	Discuss in detail about term frequency and Inverse Do Frequency.	cument (7)
	(ii)	Compute TF-IDF given a document containing terms with the frequencies A(3), B(2), C(1). Assume document collections and document frequencies of these terms are A(50), B(1300),	10,000
		TE MANAGEMENT OF SECRETARIAN S	
(b) (i)	Explain about latent semantic indexing and latent space illustration.	with an (7)
	(ii)	Illustrate the probabilistic relevance feedback, pseudo refeedback and Indirect relevance feedback.	elevance (6)
13. (a	(i)	Evaluate agglomerative clustering and HAC in detail.	(7)
	(ii)	Summarize the significance of SVM classifier in detail	(6)
		mozella Or	
(b)		mine single dimensional and multi-dimensional indexing unple.	with an
14. (a		gn and develop a Web search Architecture and the compor ch engine and its issues.	nents of
(b)) Desc	cribe the following with example.	
	(i)	Bag of Words and Shingling	(7)
	(ii)	Hashing, Min Hash and Sim Hash	(6)
15. (a) (i)	Explain about Matrix Factorization?	(4)
	(ii)	Discuss the approaches of recommender system.	(9)
		Or	
(b) (i)	Write down the common HLA terminologies	(4)
	(ii)	Define the steps involved in Collaborative Filtering	(9)
		2	50410

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