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CAIN MORE KNOWLEDGE SCHOOL OF ENGINEERING												
MAKEUP EXAMINATION- JAN 2023												
Course Code: CSE232				Date: 30-JAN-2023								
Course Name: Information Retrieval and Organization Program : B.TECH				Time: 09:30 AM-12:30 PM								
				Max Marks: 100 Weightage: 50%								
												Instructions: (i) Read the all questions carefully and answer
Part A [Memory R	ecall Qu	estio	ns]									
Answer all the Questions. Each question carries FIVE marks.				(5Qx 5M= 25M)								
1. Difference Between Data and Information Retrieval.				(C.O.No.1) [Knowledge's level]							el]	
2. Find The Precision for, the given search to the sys	tem retrie	ves 8	0 iter	ns, c	out c	of wł	hich 4	0 ar	e re	leva	ant	
and 40 are non-relevant, the precision is 50%.				(C.O.No.2) [Knowledge's level]							el]	
3. What is KNN? Write the Euclidean Distance Formula for KNN.				(C.O.No.3) [Knowledge's leve						el]		
4. Define Search Engine. List out the types of Search E	-			-	O.N	o.4)	[Knov	vled	ge's	lev	el]	
5. What is Collaborative Filtering? List out the types of	collaborat	ive filt				_\	,					
			((ا.O.ز	NO.	5) [ř	Snow	edg	és	leve	эIJ	
Part B [Thought-Pro	voking C	Quest	tions	5]								
Answer all the Questions. Each question carrie	es TEN m	narks			(3	Qx1	10M=	30N	1)			
6. D1: CDs Cheap Software Cheap CDs.												
D2: Cheap Thrills DVDs.	05											
Q: Cheap CDs Cheap DVDs Extremely Che In the above two documents and one query, find the	•	docun	nent l	bv us	sina	the	cosin	e sin	nilar	ity.		
				-	-		npreh			-	əl]	
7. Explain in detail about Brute Force Method in the fol		ample	. Find	d the	pat	tern	found	pos	sitior	۱.		
KARNATA NATAKA	K A											
	<u>I</u> I		(C.C).No.	.3) [Con	npreh	iens	ive	leve	əl]	
8. Find the Page Rank below graph. Damping Factor(I	D)=0.76			. N.I	4) F	· • • •			•		- 17	
			(U.U).INO.	.4) [Con	npreh	iens	lve	leve	ЭIJ	
Page A Page B Page B												
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Part C [Problem Solving Questions]

Answer all the Questions. Each question carries FIFTEEN marks. (3Qx15M=45M)

9. a) Explain the Information Retrieval(IR) with neat architecture describing each component in detail. (10)b) Write a Short note on Web Crawler and List out the Challenges of the Web. (5)

(C.O.No.1) [Application level]

- 10. Document collection consists of the following documents
 - d1: "Frodo and Sam stabbed orcs"
 - d2: "Sam chased the orc with the sword"
 - d3: "Sam took the sword"
 - The query is: "Sam stabbed orc"
 - To find the relevant document among the three documents, Use the Binary Independence Model(BIM) without relevance. (C.O.No.2) [Application level]
- 11. We have data from the questionnaires survey (to ask people's opinions) and objective testing with two attributes (acid durability and strength) to classify whether a special paper tissue is good or not.

Name	Acid Durability	Strength	Class		
Type 1	7	7	Bad		
Туре 2	7	4	Bad		
Туре 3	3	4	Good		
Туре 4	2	4	Good		

• Here are four training samples.

Now the factory produces a new paper tissue that passes laboratory tests with X1 = 4 and X2 = 7. Without another expensive survey, can we guess what the classification of this new tissue is using KNN Classifier?

(C.O.No.3) [Application level]