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				Reg. No.										
		Quest	tion Paper Code	12564	1									
	B.E. / B.Tech DEGREE EXAMINATIONS, APRIL / MAY 2024													
	Eighth Semester													
	Computer and Communication Engineering													
		20CSEL703 – IN	FORMATION R	ETRIEVAI	L TECH	INIQUES	5							
Regulations – 2020														
Duration: 3 Hours Max. Marks:														
$PART - A (10 \times 2 = 20 \text{ Marks})$							Marks	K – Level	со					
1.	Ident	ifv the need of Inform	ation Retrieval.	28110118			2	K1	COI					
2.	Com	oare Information vs Da	ata Retrieval.				2	K2	CO1					
3.	List 1	he classes of retrieval	model.				2	<i>K1</i>	<i>CO2</i>					
4.	Inter	oret cosine similarity n	neasure.				2	K2	<i>CO2</i>					
5.	Disti	nguish Supervised lear	ning and Unsuperv	vised Learni	ng.		2	K2	CO3					
6.	What is a Range query and Nearest-Neighbor Queries?							<i>K1</i>	CO3					
7.	What is meant by Search Engine Optimization?							K1	<i>CO</i> 4					
8.	Class	ify the types of search	engines.				2	K2	<i>CO</i> 4					
9.	Classify collaborative filtering system.						2	K2	CO5					
10.	Desc	ribe Hybrid recommen	dation system.				2	K2	CO5					
		PA	$ART - B (5 \times 13 = 0)$	65 Marks)										
			Answer ALL Qu	estions		1 0	12	W O	CO1					
11.	a)	with neat diagram.	components of In	nformation	Retrieva	il System	13	K2	COI					
	b)	Explain in detail abou	UK It search interfaces	available to	dav		13	K2	CO1					
	0)	Explain in detail door			uuy.									
12.	a) i)	Express what is Boole	ean retrieval model				4	K2	CO2					
	ii)	Describe the documer	nt preprocessing sto OR	eps in detail			9	K2	<i>CO2</i>					
	b) i)	Explain about explicit diagram.	cit relevance feed	lback mech	anism y	with neat	6	K2	<i>CO2</i>					
	ii)	Write short note on ir diagram.	nplicit relevance fe	edback med	chanism	with neat	7	K2	<i>CO2</i>					
13.	a) i)	Analyze the working representation.	of Nearest Neighl	oor algorith	n along	; with one	6	К3	CO3					
	ii)	Analyze the K-Means	Clustering metho	d and the pro	oblems i	in it.	7	K3	CO3					
K1	– Rem	ember; K2 – Understand; K	K3 – Apply; K4 – Analy I	vze; K5 – Eval	uate; K6	– Create	12	564						

		OR							
	b) i) Analyze about Decision Tree Algorithm with illustration.								
ii) Demonstrate its working in detail with an example.					СО3				
14.	a)	With the neat diagram explain the features and architecture of Web crawler.	13	K2	<i>CO4</i>				
	OR								
	b)	Discuss about search engine user interaction in detail.	13	K2	<i>CO</i> 4				
15.	a)	Classify the different types of recommendation systems.	13	K2	<i>CO5</i>				
	,	OR							
	b) i)	Design Matrix factorization model.	6	K2	<i>CO5</i>				
	ii)	Explain in Detail about Neighboring models in detail.	7	K2	<i>CO5</i>				
		PART - C (1× 15 = 15 Marks)							
16.	a)	Explain about Information Visualization techniques.	15	K2	<i>CO6</i>				
		OR							
	b)	Discuss about the aspects of visualization process.	15	K2	<i>CO6</i>				