Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER- VII EXAMINATION-SUMMER 2023
Subject Code: 3170718   **Date: 26/06/2023**
Subject Name: Information Retrieval
Time: 10:30 AM TO 01:00 PM   **Total Marks: 70**
Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Simple and non-programmable scientific calculators are allowed.**

			MARKS
Q.1	**(a)**	Differentiate between semi structure text and unstructured text.	**03**
	(b)	Explain the Process of IR.	**04**
	(c)	Write a short note on Zipt's Law.	**07**
Q.2	**(a)**	Differentiate between dynamic indexing and static indexing.	**03**
	(b)	Describe following:	**04**
		1. lexicon compression	
		2. Postings list compression.	
	(c)	Explain Components of IR with block diagram.	**07**
		OR	
	(c)	Explain Elias's Gamma code.	**07**
Q.3	**(a)**	Explain TF-IDF Weighting.	**03**
	(b)	Explain the functions of information retrieval system.	**04**
	(c)	Write a short note on Kappa Measure and Interjudge Agreement	**07**
		OR	
Q.3	**(a)**	List the issues in information retrieval system.	**03**
	(b)	Discuss web information retrieval system.	**04**
	(c)	Describe how to performed Document length normalization.	**07**
Q.4	**(a)**	Explain about Latent Semantic Indexing method.	**03**
	(b)	Compare HITS with Page rank.	**04**
	(c)	Explain in detail about Search Engine.	**07**
		OR	
Q.4	**(a)**	Explain XML Retrieval? Also write down the major Challenges in XML retrieval.	**03**
	(b)	Write a short notes for User Relevance Feedback:	**04**
	(c)	What are the three classic models in information retrieval system? Explain in detail	**07**
Q.5	**(a)**	Write a short note on Cross language information retrieval.	**03**
	(b)	Difference betw2een Clustering and Classification.	**04**
	(c)	Describe Cross language information retrieval and its limitation in web search.	**07**
		OR	
Q.5	**(a)**	Describe Boosting in brief.	**03**
	(b)	Explain Semantic Web in brief.	**04**

(c) Explain Web Crawling Architecture with suitable diagram. **07**

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