

**PRAGATI ENGINEERING COLLEGE: SURAMPALEM**  
**(AUTONOMOUS)**  
**IV B.Tech II Semester Supplementary Examinations, May– 2024**

**INFORMATION RETRIEVAL SYSTEMS**  
**(CSE)**

Time: 3 hours

Max. Marks: 60

Question Paper Consists of **Part-A** and **Part-B**  
 Answer **ALL** questions from **Part-A**,  
 Answer any **FOUR** Questions from **Part-B**

PART-A					
			[6x2=12M]		
Q.No.		Question	BTL	CO	Marks
1.	a)	List the fundamental concepts in Information Retrieval.	K1	1	[2M]
	b)	What is Inverted File.	K1	2	[2M]
	c)	Name the types of partitioning.	K1	3	[2M]
	d)	What is PAT Tree.	K1	4	[2M]
	e)	List the conflation methods in Stemming.	K1	5	[2M]
	f)	What is Manual Thesaurus Construction.	K1	6	[2M]
PART-B					
			[4x12=48M]		
2.	a)	Illustrate about Functional View of Paradigm IR System.	K2	1	[6M]
	b)	Discuss the basic data structures used in IRS.	K2	1	[6M]
3.	a)	Explain in detail about the structures used in Inverted Files.	K2	2	[6M]
	b)	Explain how Inverted file can be build using a sorted array.	K2	2	[6M]
4.	a)	Explain the basic concepts of Signature Files.	K2	3	[6M]
	b)	Discuss the methods used in Horizontal Partitioning.	K2	3	[6M]
5.	a)	Explain any two searching algorithms on PAT Trees.	K2	4	[6M]
	b)	Demonstrate the representation of PAT Trees as Arrays.	K2	4	[6M]
6.	a)	Discuss the n-gram Stemmers algorithm.	K2	5	[6M]
	b)	Explain how Stemming is used to compress Inverted Files.	K2	5	[6M]
7.	a)	Explain about the Features of Thesauri.	K2	6	[6M]
	b)	Explain merging existing Thesaurus construction.	K2	6	[6M]