ACE
Engineering College
(An Autonomous Institution)

Question Paper Code: 22DS522PE

ACER22

Semester End Examination
III B. Tech- I Semester Regular- January-2025
INFORMATION RETRIEVAL SYSTEMS
(CSD)

Time: 3 Hours **Max. Marks: 60**

H. T. No										

Note: This question paper contains two parts A and B.
1.Part A is compulsory which carries 10 marks. Answer all questions in Part A.
2.Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b as sub questions

PART- A *MARKS: 10*1=10*

Q.No: 1	Question	Marks
a)	*What is the primary goal of an information retrieval system?*	*1*
b)	*Name two types of retrieval models commonly used.*	*1*
c)	*Provide two examples illustrating how indexing enhances information accessibility?*	*1*
d)	*Explain the concept of term frequency in vector space models.*	*1*
e)	*Define stop words and their significance in text processing.*	*1*
f)	*What is clustering?*	*1*
g)	*Describe the concept of personalization in web search.*	*1*
h)	*Mention two factors that influence the ranking of search results.*	*1*
i)	*What is content-based image retrieval?*	*1*
j)	*List two techniques used for video information retrieval.*	*1*

PART- B *MARKS: 5*10=50*

Q.No	Question Description	Marks
2.	*Discuss the evolution of information retrieval systems and their impact on modern applications.*	10
	(OR)	
3	*Explain with examples how metadata is used to enhance retrieval effectiveness.*	10
4	*Describe the term weighting schemes in vector space models.*	10
	(OR)	
5.	*Compare probabilistic and automatic indexing model with examples*	10
6	*Critically evaluate different methods for handling synonymy in text retrieval.*	10
	(OR)	
7	*Illustrate how stemming and lemmatization improve retrieval accuracy*	10
8	*Explain the Rabin-karp algorithm with an example.* .	10
	(OR)	
9	*Analyze the challenges of implementing query expansion in large-scale retrieval systems.*	10
10	*Explain hardware text search systems in IRS in detail.*	10
	(OR)	
11	*Discuss the future trends in multimedia information retrieval and their potential applications.*	10