



# ACE

## Engineering College

(An Autonomous Institution)

Question Paper Code:

CD522PE

ACE-R20

### III B. Tech- I Semester Supply Examinations – Aug/Sep-2024

#### INFORMATION RETRIEVAL SYSTEMS

#### CSM & CSD

Time: 3 Hours

Max. Marks: 70

H. T. No									
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Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions

PART- A

MARKS: 10\*2=20

Q.No.1

Question

Marks

- |    |   |   |
|----|---|---|
|    |   |   |
| a) | Why is it necessary to retrieve an information? | 2 |
| b) | What is proximity? How can it be calculated?    | 2 |
| c) | What is the importance of thesauri?             | 2 |
| d) | What is the advantage of Stemming algorithm?    | 2 |
| e) | What is CWP?                                    | 2 |
| f) | Draw the thesaurus for the term COMPUTER.       | 2 |
| g) | What is a search statement?                     | 2 |
| h) | What is indexing?                               | 2 |
| i) | What is Visualization?                          | 2 |
| j) | What is text search algorithm?                  | 2 |

## PART- B

MARKS: 5\*10=50

Q.No	Question Description	Marks
2.	Describe functional overview of information retrieval systems(IRS)?	10
	(OR)	
3	What is the impact on precision and recall in the use of Stop Lists and Stop Algorithms?	10
4	What are the similarities and differences between fuzzy searches and term masking? Mention the potential of each.	10
	(OR)	
5.	Which one is efficient? Boolean query or Natural Language Query. Explain	10
6	With the help of an example, explain the concept of statistical indexing.	10
	(OR)	
7	How can Thesaurus generation be implemented? Explain	10
8	Differentiate between cognition and perception with the help of an example.	10
	(OR)	
9	Explain about Ranking algorithm with respect to Hidden Markov Model.	10
10	Explain Hardware text search systems in detail?	10
	(OR)	
11	Construct a Bad Match Table for the pattern "teammast", text "welcometoteammast".	10