

Code No.: CS624PE

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

III-B.TECH-II-Semester End Examinations (Supply) - January- 2024

INFORMATION RETRIEVAL SYSTEM

(CSE)

[Time: 3 Hours]

[Max. Marks: 70]

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

(20 Marks)

1. a) List the capabilities of Information Retrieval Systems. [2M]
- b) Define Data warehouse. [2M]
- c) What is meant by Inverted File Structure? [2M]
- d) Define PAT Data Structure. [2M]
- e) What is Automatic Indexing? [2M]
- f) Define Concept Indexing. [2M]
- g) Define Hyper Text. [2M]
- h) Define Cognition. [2M]
- i) Give a note on concept of text search. [2M]
- j) What is Imagery Retrieval? [2M]

PART-B

(50 Marks)

2. Define Information retrieval system. Explain the objectives of the Information retrieval system. [10M]
- OR**
3. Explain the functional overview of Information Retrieval System. [10M]
 4. What is stemming? Explain the porter stemming algorithm with example. [10M]
- OR**
- 5.a) Explain about Multimedia Indexing. [5M]
 - b) Explain the following data structures with examples. [5M]
 - i) N-Gram
 - ii) PAT
 6. Differentiate between Manual Clustering and Automatic Term clustering. Explain with suitable examples. [10M]
- OR**
7. a) Explain the process of Thesaurus generations. [5M]
 - b) Define the Clustering. What are the guidelines for clustering? [5M]
 8. Write short notes on the following with examples. [10M]
 - a) Similarity Measures
 - b) Ranking Algorithms
 9. Explain the main aspects of information visualization technology. [10M]
 10. a) List out the differences between Boyer-Moore text search algorithm and Knuth-Morris algorithm. [5M]
 - b) Differentiate hardware versus software text search algorithms. [5M]
- OR**
11. Explain the GESCAN and Fast Data Finder hardware text search machines? [10M]
