| Code No.: CS624PE | R20 | H.T.No. | | | 8 | R | | | | | | |
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**CMR ENGINEERING COLLEGE: : HYDERABAD**
**UGC AUTONOMOUS**
**III–B.TECH–II–Semester End Examinations (Supply) - June- 2025**
**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) | Define Information retrieval systems. | [2M] |
| b) | What are the search capabilities? | [2M] |
| c) | Discuss Concept Indexing. | [2M] |
| d) | What is N-Gram Data Structure? | [2M] |
| e) | Define automatic indexing? | [2M] |
| f) | Discuss the impact of merging domains in single cluster for item clustering? | [2M] |
| g) | What is the impact of relevance feedback on search? | [2M] |
| h) | Define perception. | [2M] |
| i) | What are the advantages of hardware text search systems? | [2M] |
| j) | Write some reasons to evaluate the effectiveness of a information retrieval system? | [2M] |

**PART-B** **(50 Marks)**

| | | |
|---|---|---|
| 2. | Discuss the relationship between information retrieval systems and database management systems | [10M] |
| | **OR** | |
| 3. | Briefly explain the data Warehouses. | [10M] |
| 4. | Explain the History and Objectives of Indexing | [10M] |
| | **OR** | |
| 5.a) | Make a comparison of dictionary look-up stemmers and successor stemmers. | [5M] |
| b) | How to create a PAT tree? Explain with example data. | [5M] |
| 6. | Explain the need and importance of weighting scheme for automatic indexing and the problems associated with the weighting scheme. | [10M] |
| | **OR** | |
| 7. | Discuss about Hierarchy of Clusters. | [10M] |
| 8. | Explain about weighted searches of Boolean systems. | [10M] |
| | **OR** | |
| 9.a) | Explain the potential ambiguities in use of relevance feedback on hypertext documents. | [5M] |
| b) | Briefly describe the aspects of the visualization process. | [5M] |
| 10. | Demonstrate Boyre-Moore Algorithm for the following scenario, explain each step. String to be searched: abcac Input String: ababdcabcdacabcac. | [10M] |
| | **OR** | |
| 11. | Discuss the Non-Speech Audio Retrieval | [10M] |

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