

CMR ENGINEERING COLLEGE: : HYDERABAD**UGC AUTONOMOUS****III-B.TECH-II-Semester End Examinations (Supply) - December- 2025****INFORMATION RETRIEVAL SYSTEM****(Common for CSE, CSD)****[Time: 3 Hours]****[Max. Marks: 60]****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 10 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**(10 Marks)**

1. a) What is an Information Retrieval System? [1M]
- b) Write any two Application Areas of IRS. [1M]
- c) What is automatic indexing? [1M]
- d) What are attributes in XML? [1M]
- e) Define Vector Weighting. [1M]
- f) Write any two advantages of Clustering. [1M]
- g) Define Search statements. [1M]
- h) Define Similarity. [1M]
- i) Define TAP. [1M]
- j) Write any two advantages of Multimedia. [1M]

PART-B**(50 Marks)**

- 2.a) Comparison between Digital Libraries and Data Warehouses. [5M]
 - b) Describe the major functional processes in IRS. [5M]
- OR**
3. Explain the Browse & Miscellaneous Capabilities of IRS. [10M]
 4. Discuss the role of authority control in cataloging and its impact on information retrieval. [10M]
- OR**
5. Explain the N-Gram Data Structure and PAT Data Structure. [10M]
 - 6.a) Explain the Extended Bayesian Network model. [5M]
 - b) Discuss the Vector waiting model. [5M]

OR

7. Explain Item clustering with example. [10M]

	Term1	Term 2	Term 3	Term 4	Term 5	Term 6	Term 7	Term 8
Item 1	0	4	0	0	0	2	1	3
Item 2	3	1	4	3	1	2	0	1
Item 3	3	0	0	0	3	0	3	0
Item 4	0	1	0	3	0	0	2	0
Item 5	2	2	2	3	1	4	0	2

8. Explain the similarity measures and Ranking. [10M]
- OR**
9. Discuss briefly about any three Information Visualization Technologies. [10M]
 10. Explain the Hardware Text Search Systems. [10M]
- OR**
11. Explain the Graph & Imagery Retrieval. [10M]
