

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)

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|-------|------------------------------------------|------|
| 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)

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| 2.a) | Comparison between Digital Libraries and Data Warehouses. | [5M] |
| b) | Describe the major functional processes in IRS. | [5M] |

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| 3. | Explain the Browse & Miscellaneous Capabilities of IRS. | [10M] |
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| 4. | Discuss the role of authority control in cataloging and its impact on information retrieval. | [10M] |
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| 5. | Explain the N-Gram Data Structure and PAT Data Structure. | [10M] |
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| 6.a) | Explain the Extended Bayesian Network model. | [5M] |
| b) | Discuss the Vector waiting model. | [5M] |

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

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