

**R18**

**Code No: 155BV**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech III Year I Semester Examinations, March - 2024**

**INFORMATION RETRIEVAL SYSTEMS**

**(Computer Science and Engineering)**

**Time: 3 Hours**

**Max. Marks: 75**

**Note:** i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

**PART – A**

**(25 Marks)**

- 1.a) Define Data Warehouse. [2]
- b) List out Objectives of Information Retrieval Systems. [3]
- c) Define Cataloging. [2]
- d) Write a brief note on Information Extraction. [3]
- e) Define Term Clustering. [2]
- f) Write a brief note on Statistical Indexing. [3]
- g) What is Cognition? [2]
- h) Write a short note on Similarity Measures. [3]
- i) What are Hardware Text Search Systems? [2]
- j) Write a brief note on Imagery Retrieval. [3]

**PART – B**

**(50 Marks)**

2. Discuss in detail the Browse Capabilities of Information Retrieval Systems. [10]

**OR**

3. Write a detailed note on Miscellaneous Capabilities of Information Retrieval Systems. [10]

- 4.a) Explain in detail about Automatic Indexing.
- b) Write a brief note on PAT Data Structure. [5+5]

**OR**

- 5.a) Explain in detail about Inverted File Structure.
- b) Discuss in detail about N-Gram Data Structures. [5+5]

- 6.a) Explain in detail about Concept Indexing.
- b) Discuss in detail about Item Clustering. [5+5]

**OR**

- 7.a) Discuss in detail about Hypertext Linkages.
- b) Write a detailed note on Classes in Automatic Indexing. [5+5]

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8.a) Explain in detail about Weighted Search of Boolean Systems.

b) Write a short note on Relevance Feedback.

[5+5]

**OR**

9.a) Explain about Searching the INTERNET and Hypertext.

b) What is Information Visualization? Discuss in detail.

[5+5]

10. Discuss in detail about Software Text Search Algorithms.

[10]

**OR**

11. Write a detailed note on Spoken Language Audio Retrieval.

[10]

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QA QA QA QA QA QA QA G

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QA QA QA QA QA QA QA G